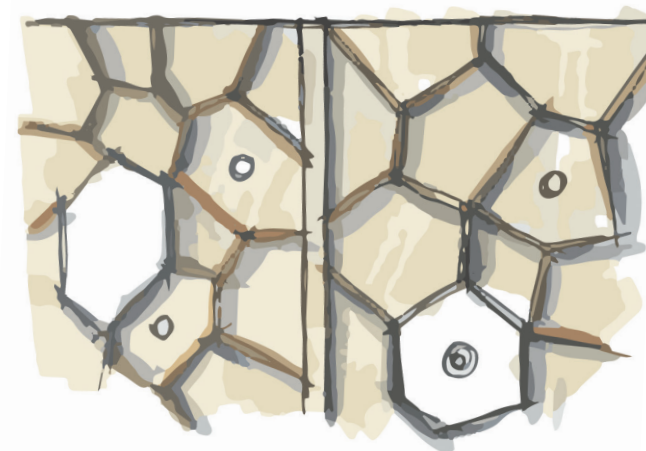
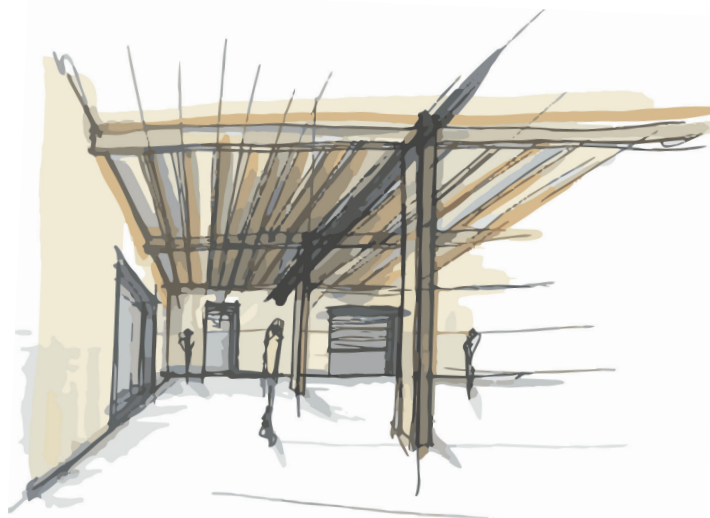
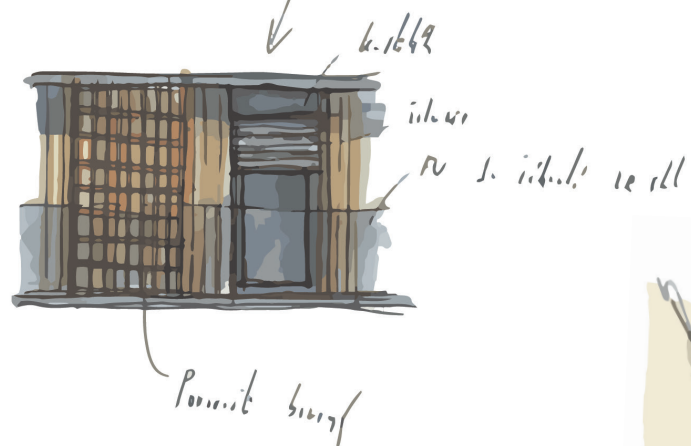
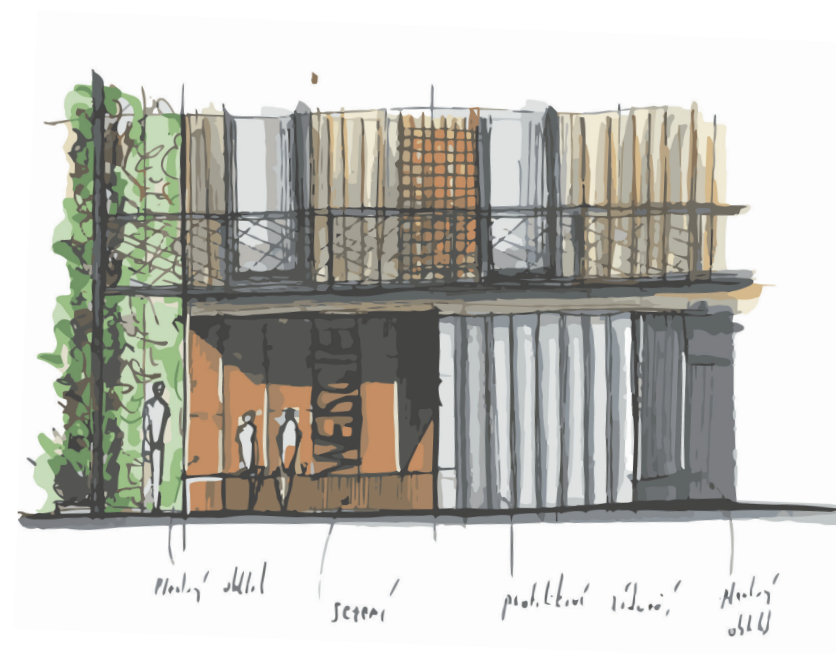
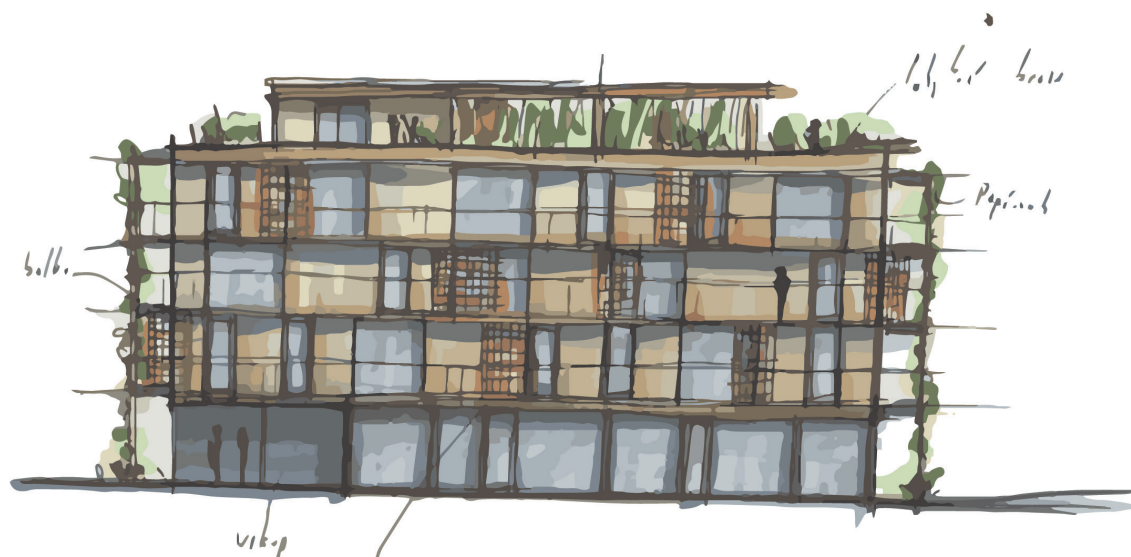
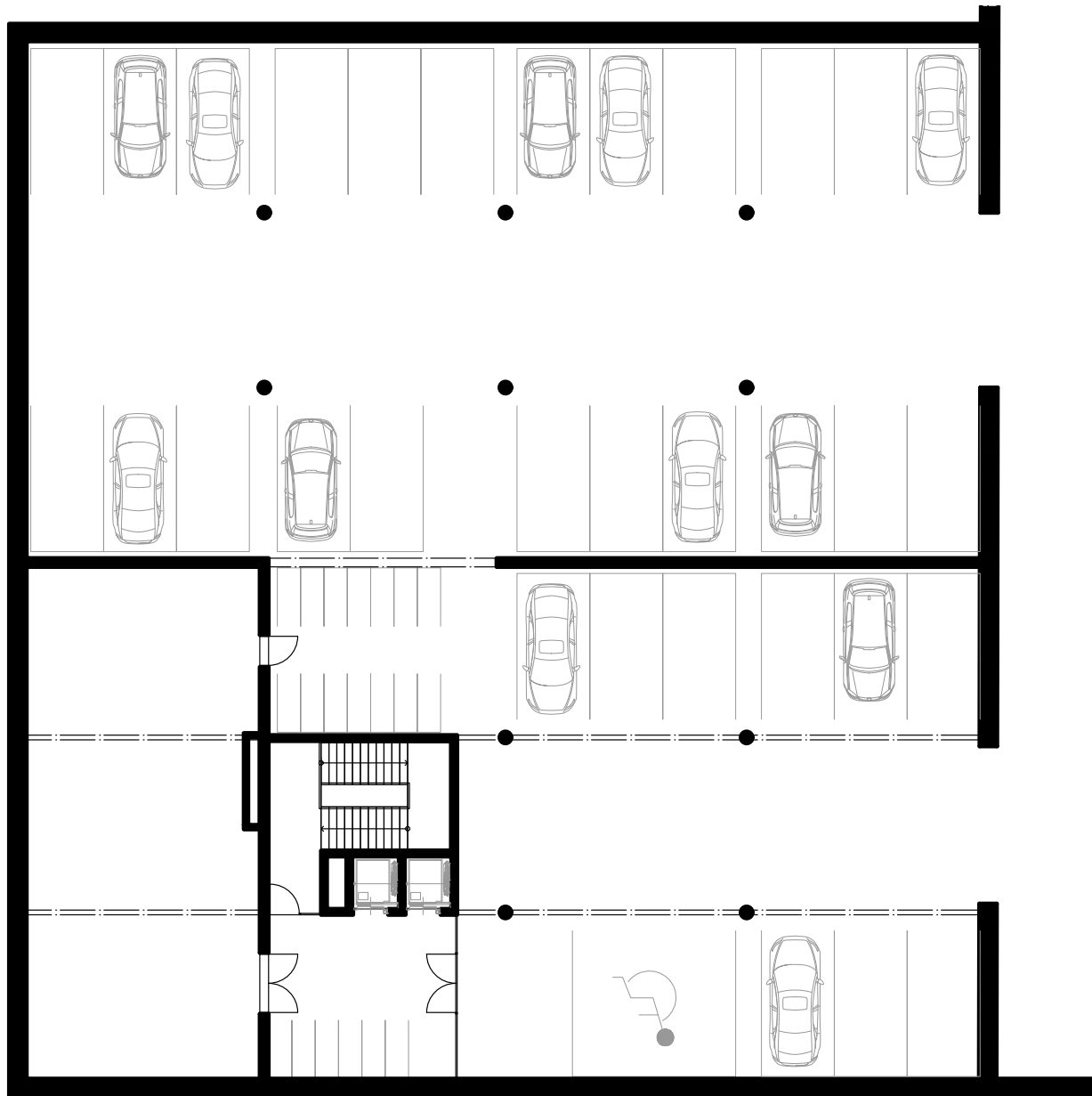
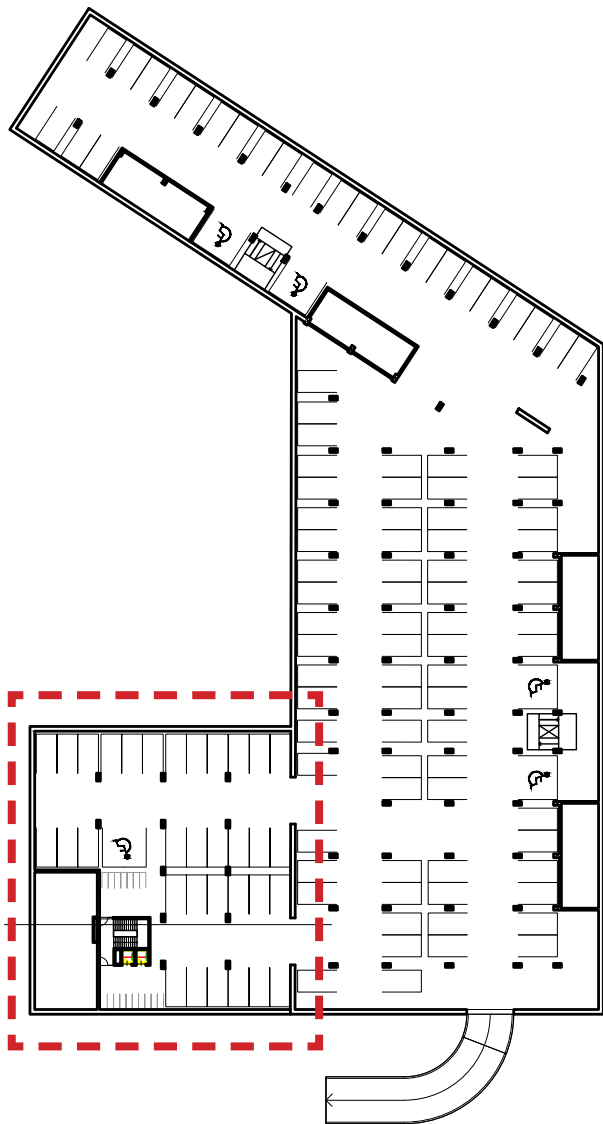
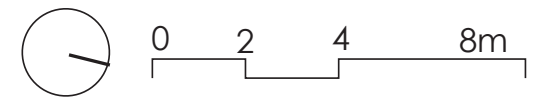
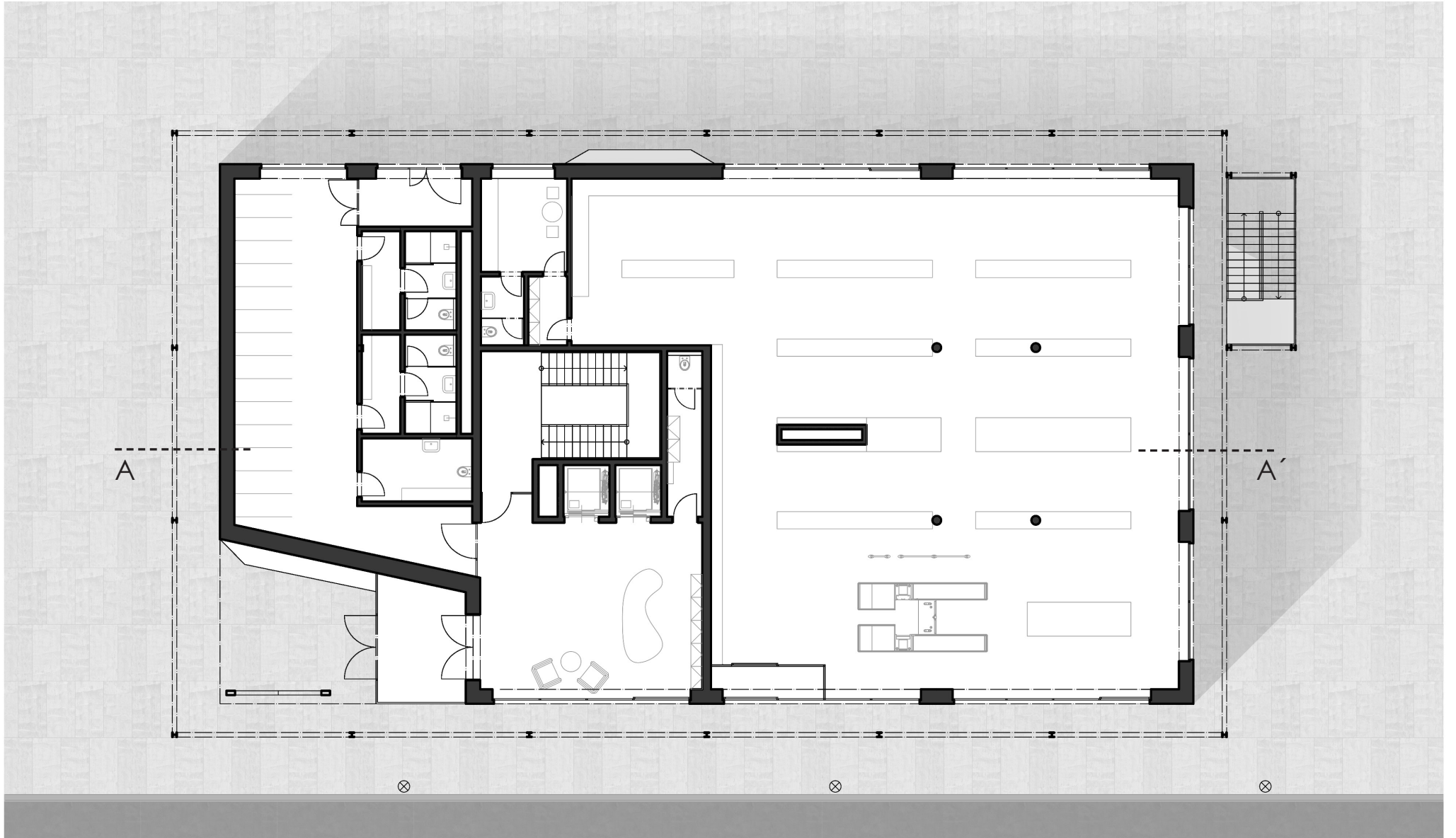


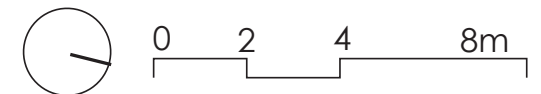
PORTFOLIO

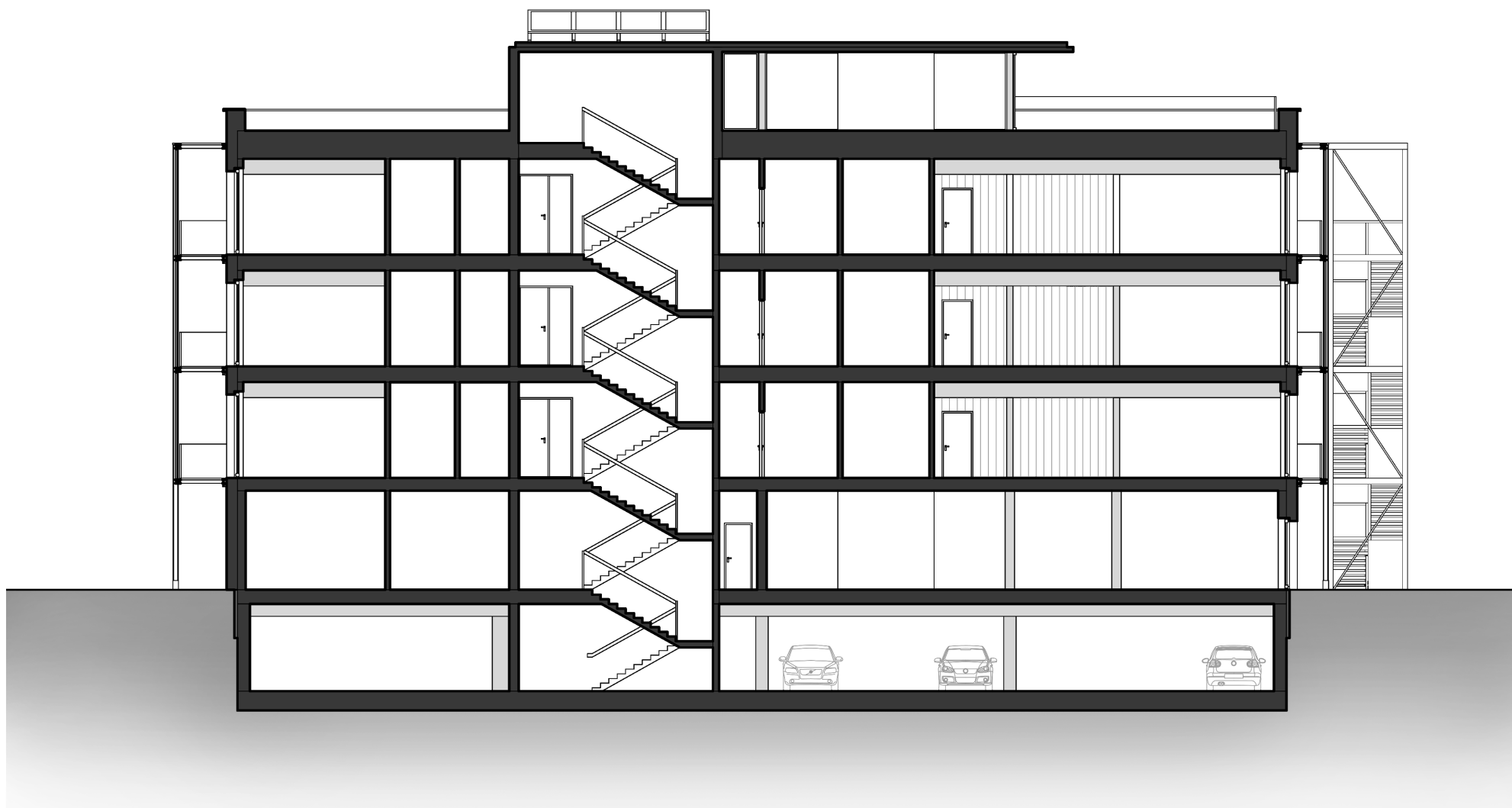
Jan Suchý
AAKA - Kalivoda, Stark, Novák, Kabele
Katedra Architektury, Fakulta stavební ČVUT
LS 2021/2022



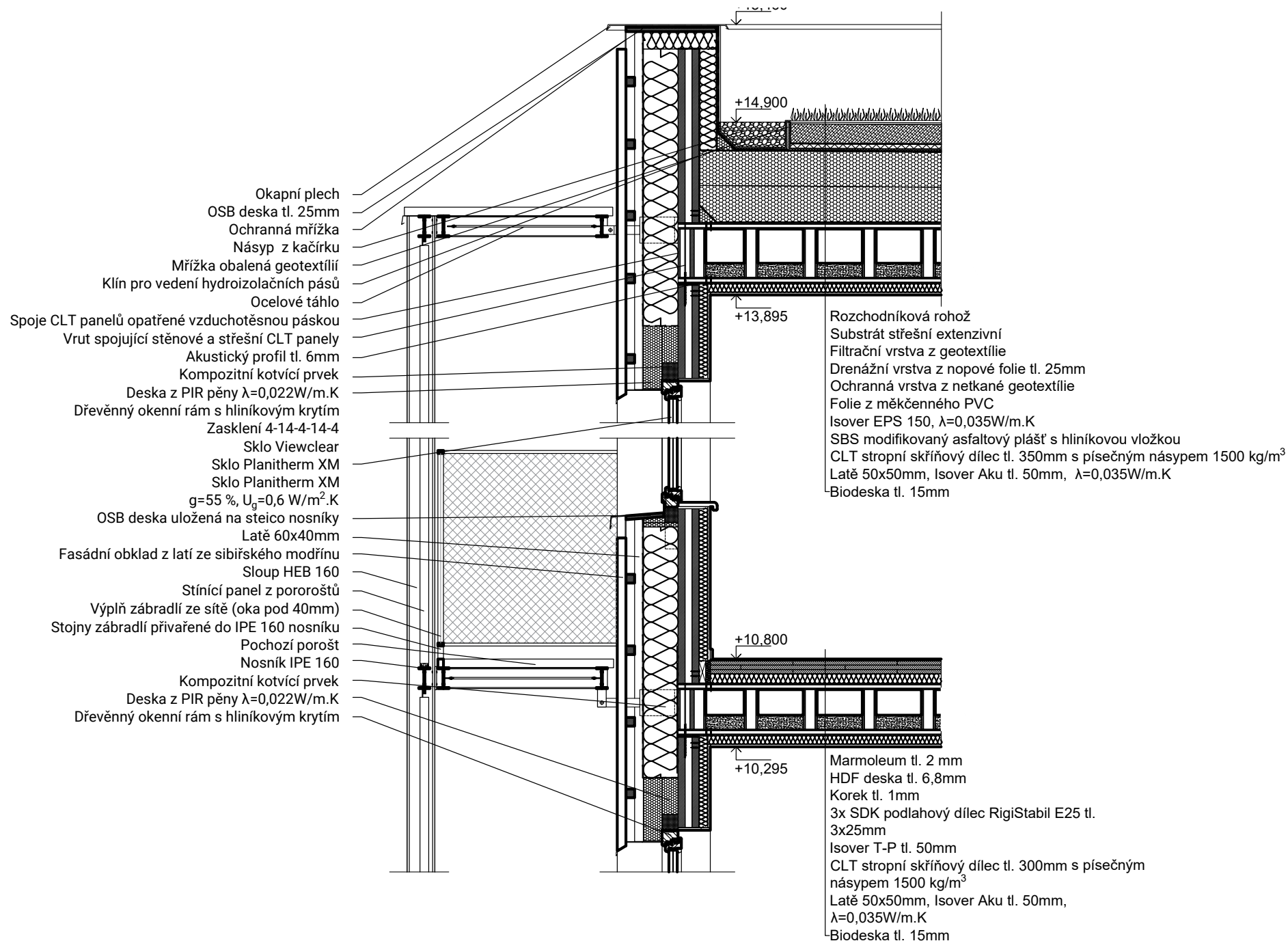


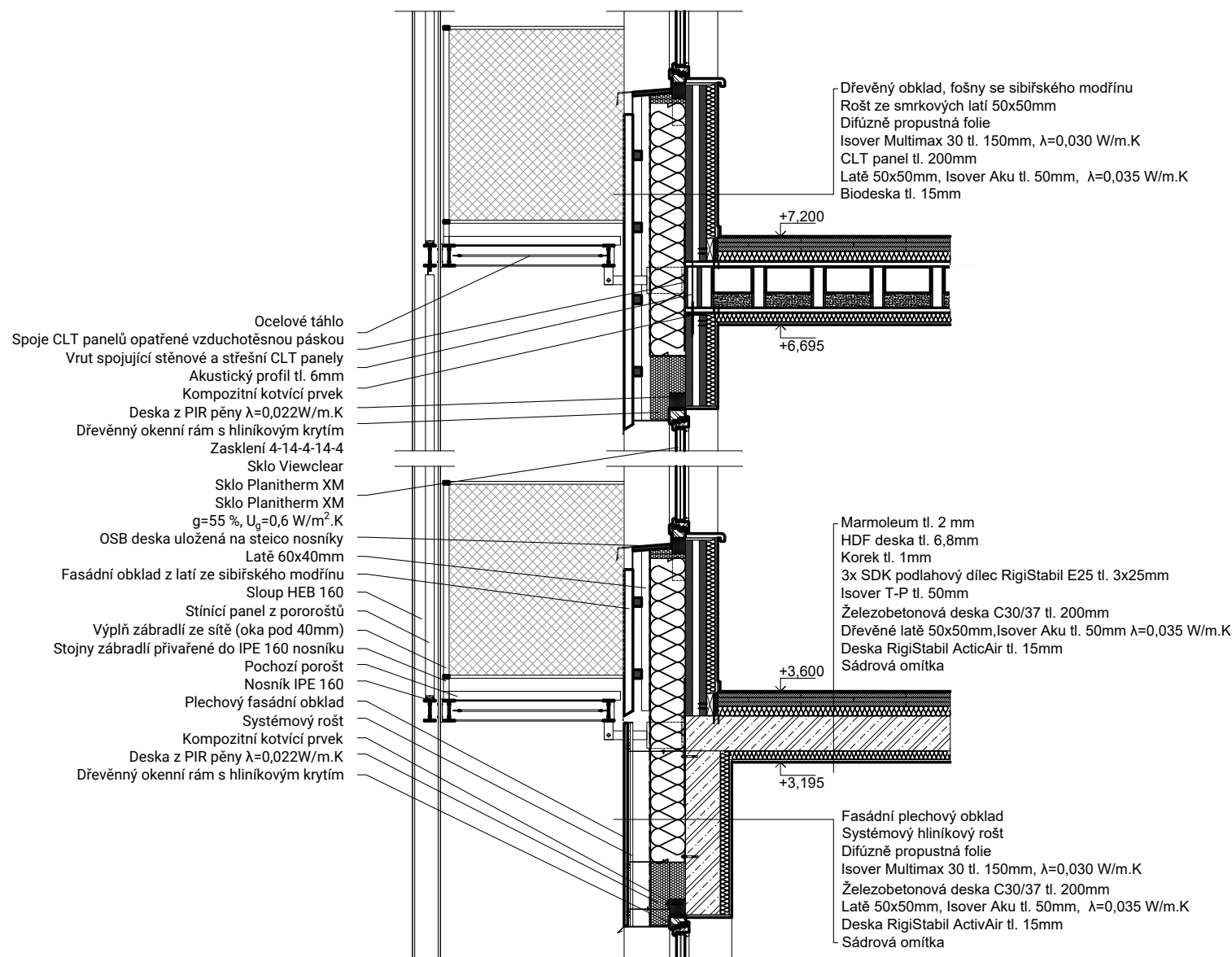


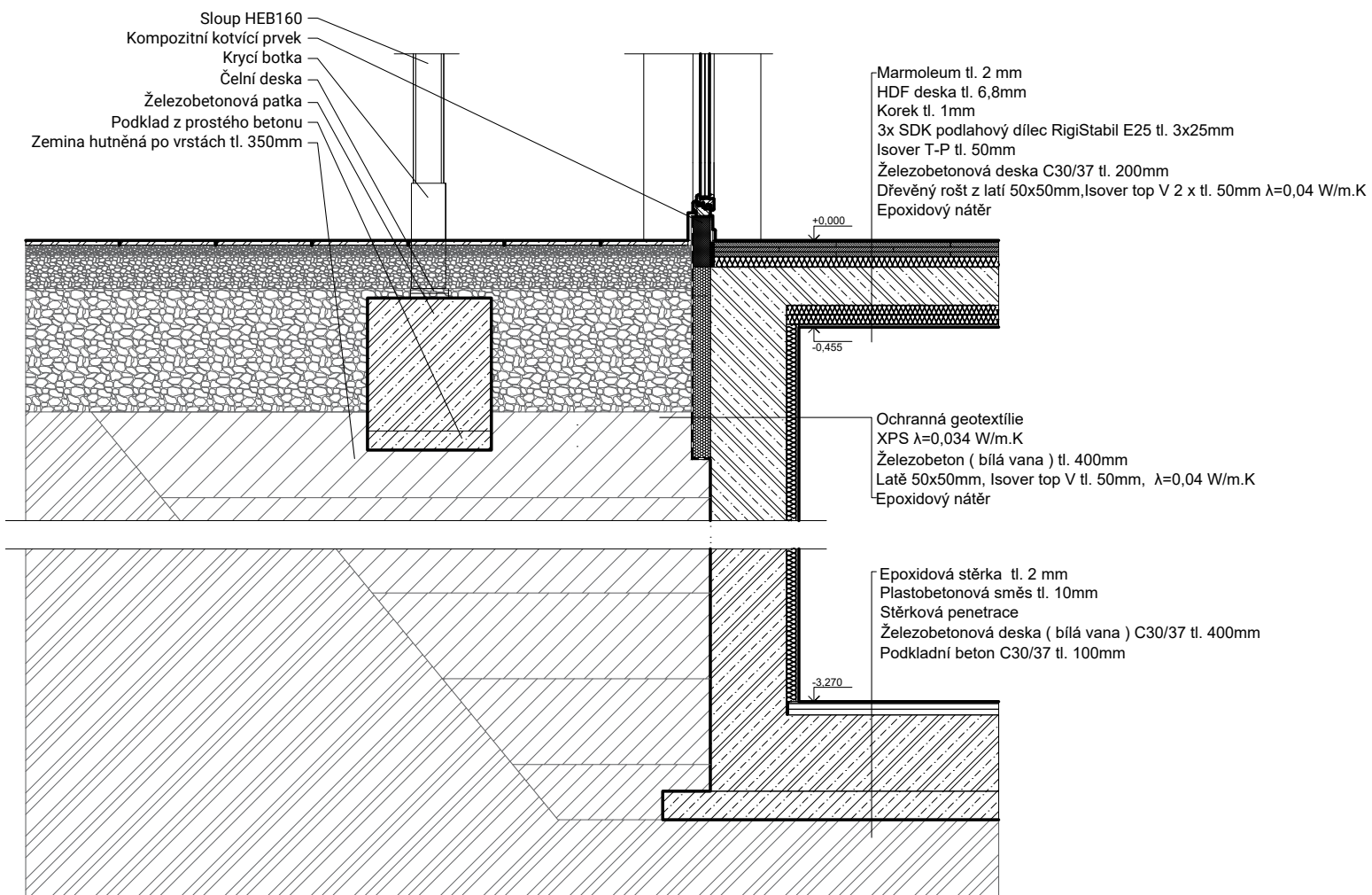


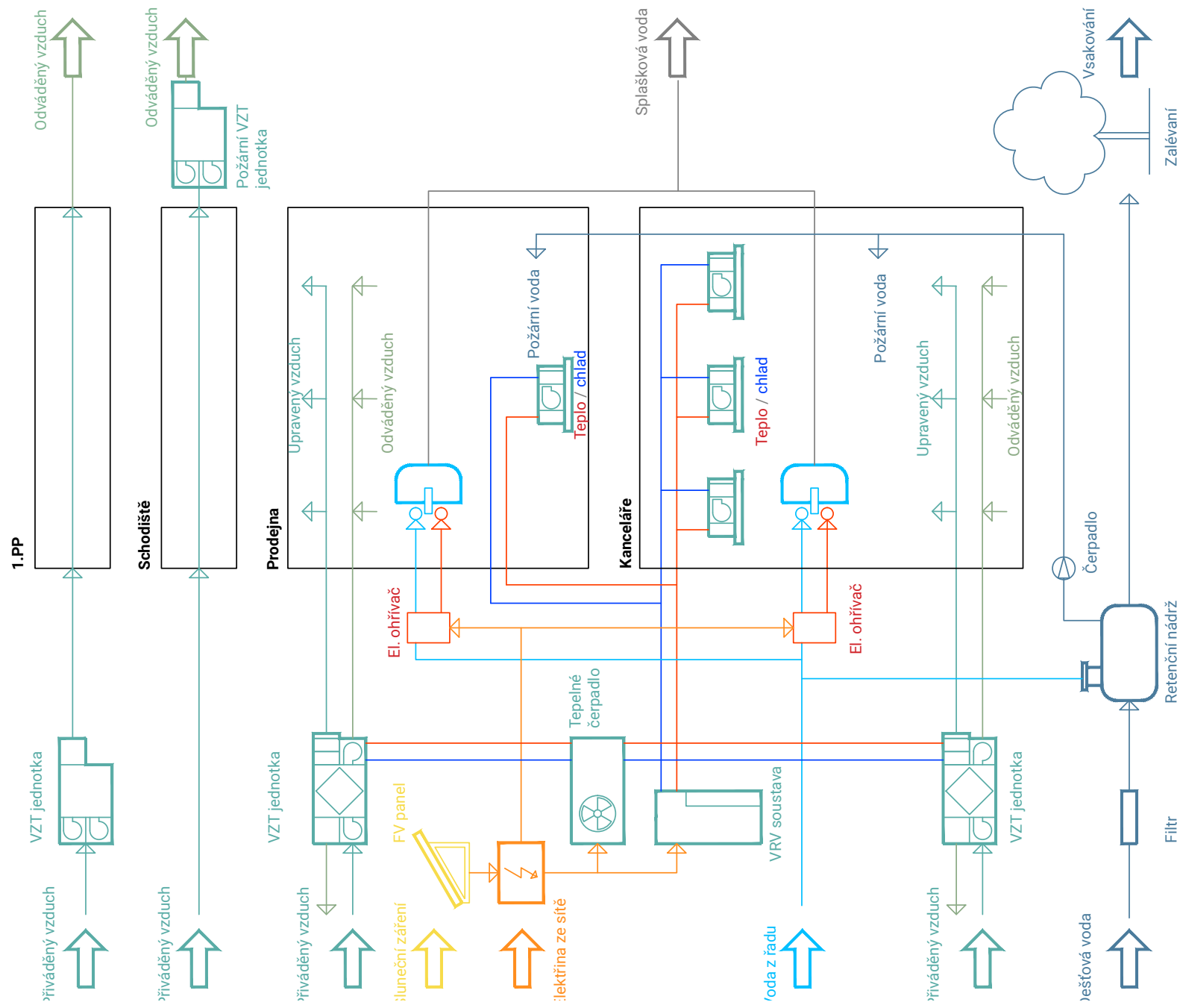













Průměrný součinitel prostupu tepla

$$U_{em} = Ht / A = 0,36 \text{ W/m}^2\text{K}$$

$$U_{em,n} \text{ podle ČSN 73 0540-2} = 0,69 \text{ W/m}^2\text{K}$$

$$U_{em} / U_{em,n} = 0,36 / 0,69 = 0,52$$

Tepelná bilance budovy

 Solární tepelné zisky

 Vnitřní tepelné zisky

 Potřeba tepla na vytápění

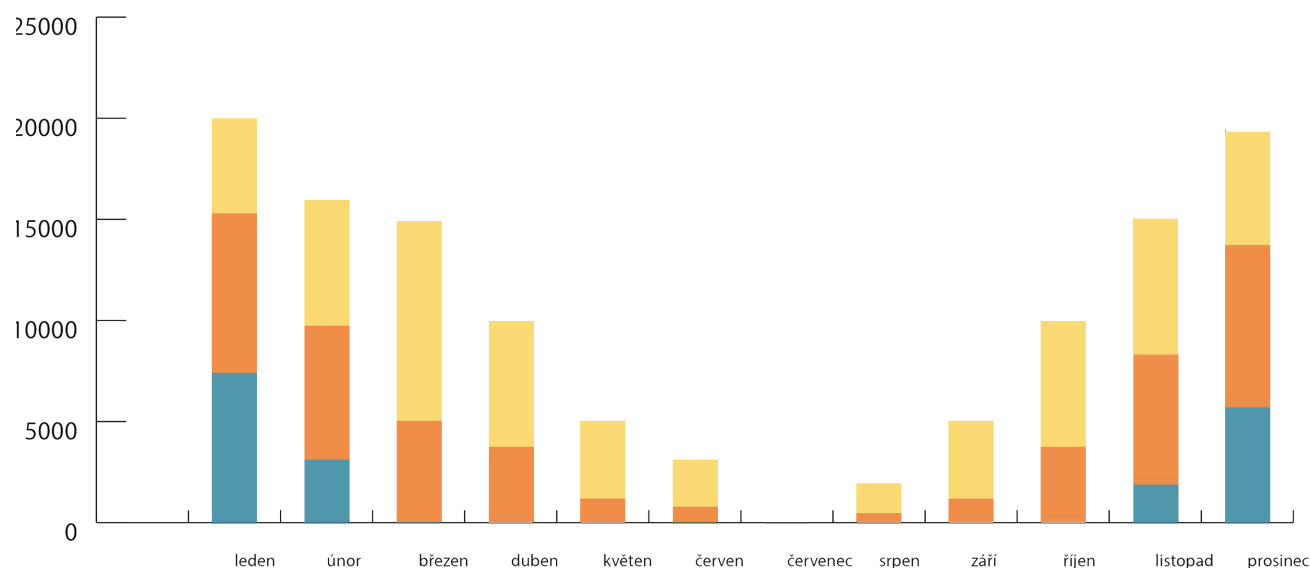
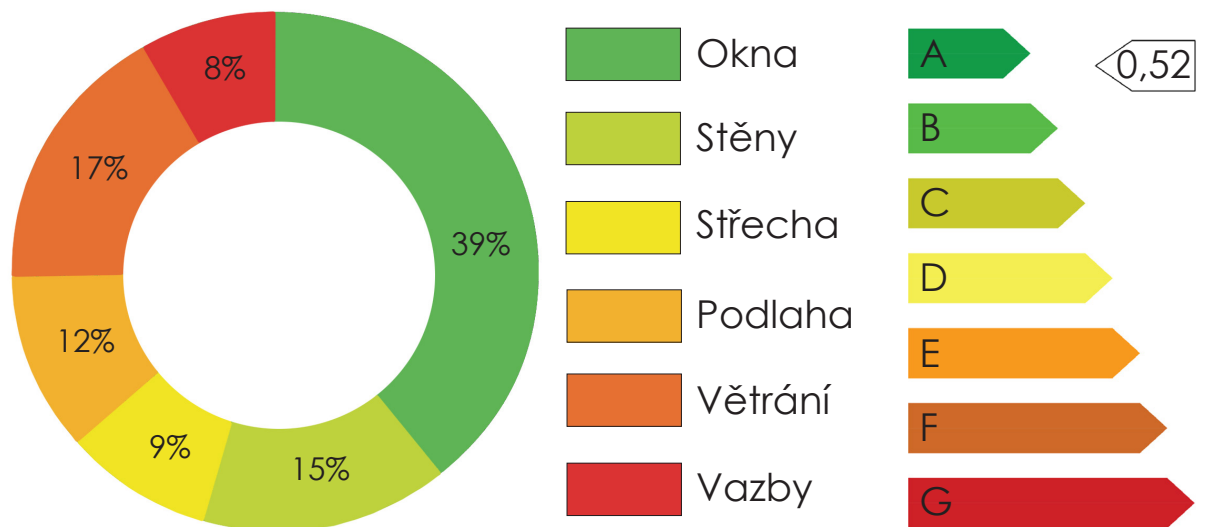
Měrná potřeba tepla na vytápění

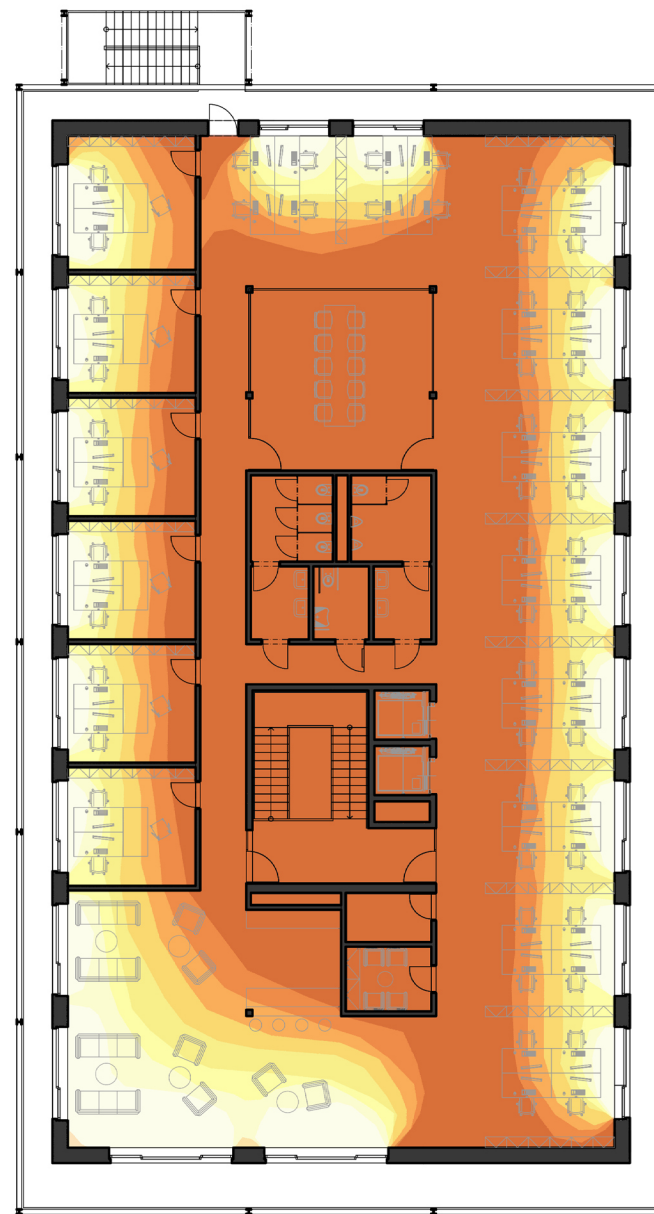
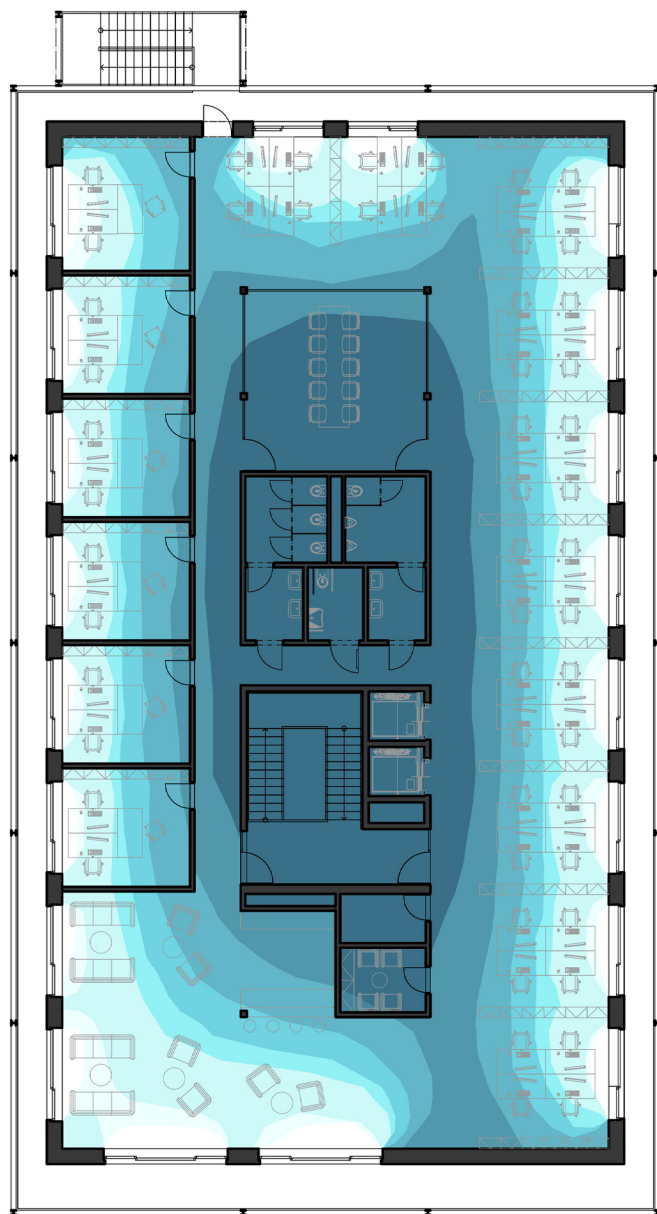
$$e_A = 10 \text{ kWh}/(\text{m}^2 \cdot \text{a}) < 15 \text{ kWh}/(\text{m}^2 \cdot \text{a})$$

Průměrný součinitel prostupu tepla

$$U_{em} = 0,36 \text{ W/m}^2\text{K}$$

Stínění objektu je navrženo tak, aby teplota nad 25°C nebyla v kancelářských prostorách déle jak 900h za rok.





Teplota nad 25°C je v prostorách po dobu 495h.



0 3 6 12m







