

Technical Specifications RTA SIP Kit

Panel composition

- Skins: OSB4, 11–15 mm
- Insulation core: BASF Neopor® (graphite EPS, $\lambda \approx 0.031 \text{ W/m}\cdot\text{K}$)
- Adhesive: One-component PU adhesive (structural, Class I, EN 15425)
- Floor decking: OSB3 T&G (tongue & groove)
- Structural wood: C24 / GL24 (EN 338 / EN 14080)

Standard thicknesses

- Internal walls: 114 mm
- External walls: 165, 210, 260, 310 mm
- Roof: 210, 260, 310 mm
- Floor: 210, 260 mm or Timber Joist or LGS with OSB3 T&G top layer)

Thermal performance (indicative)

Based on $\lambda = 0.031 \text{ W/m}\cdot\text{K}$, OSB4 skins 15 mm.

114 mm: $R_c \approx 2.94 \text{ m}^2\text{K/W}$

165 mm: $R_c = 4.59 \text{ m}^2\text{K/W}$, $U = 0.21 \text{ W/m}^2\text{K}$

210 mm: $R_c = 6.04 \text{ m}^2\text{K/W}$, $U = 0.16 \text{ W/m}^2\text{K}$

260 mm: $R_c = 7.65 \text{ m}^2\text{K/W}$, $U = 0.13 \text{ W/m}^2\text{K}$

310 mm: $R_c = 9.26 \text{ m}^2\text{K/W}$, $U = 0.11 \text{ W/m}^2\text{K}$

Fire & use class

- OSB4 skins with gypsum plasterboard interior finish, fire resistance REI 30–90 depending on configuration.
- Use class: 1–3.1 depending on exposure.
- Design according to EN 1995-1-1 (Eurocode 5).

Quality and certification

- AVCP system 1
- Factory Production Control (FPC) under ETA supervision
- Tolerances: length $\pm 5 \text{ mm}$, height $\pm 5 \text{ mm}$, thickness $\pm 3 \text{ mm}$



Installation and transport

- Panels are fully bonded and moisture protected.
- Store flat and dry on supports.
- Install according to guidelines; joints sealed with PU foam or tape.