

PREFABRICATED FRAMELESS SANDWICH PANEL HOUSES

RAUTA
RELIABLE SOLUTIONS



Rauta company

- ✓ Expert in steel construction
- ✓ Exclusive supplier of Ruukki commercial products to Ukraine
- ✓ Design, supply, installation



Technology features

- ✓ Absence of a separate frame
- ✓ PIR core sandwich panels act as a load-bearing structures and building envelope



Full-set delivery

- ✓ **Standard house set**
(flooring, walls, partitions, roofing, additional elements and fixings)
- ✓ **Extended house set**
(standard house set + lightning protection, windows and doors)
- ✓ **Full house set**
(extended house set + foundation, engineering services and internal finishing)



High construction speed

- ✓ A house is erected within only 5-7 days
(foundation, envelope structures, main engineering services)
- ✓ Small weight of structures
- ✓ All-weather installation
- ✓ Installation in congested conditions
- ✓ Possibility to extend



Energy efficiency

Thermal resistance of 160 mm thick

Ruukki PIR panels **$R=7,43 \text{ m}^2\text{K/W}$**

Minimum acceptable value under DBN V.2.6-31:

✓ For walls: $R_{\min}=3.3 \text{ m}^2\text{K/W}$

✓ For roof: $R_{\min}=6.0 \text{ m}^2\text{K/W}$

Solar panels allow to obtain a Positive Energy Building



Reliability

- ✓ High load-bearing capacity
- ✓ Seismic stability of up to 7 points
- ✓ Burglar protection class 2

Durability

- ✓ High quality Ruukki sandwich panels
(S280 Zn190-275 g/m² structural steel,
PIR with compressive strength >100 kPa)
- ✓ Durability – up to 50 years



High operational compatibility

- ✓ Precise geometrical characteristics
- ✓ Minimum structures fitting on site
- ✓ High quality of construction



Finishing' options

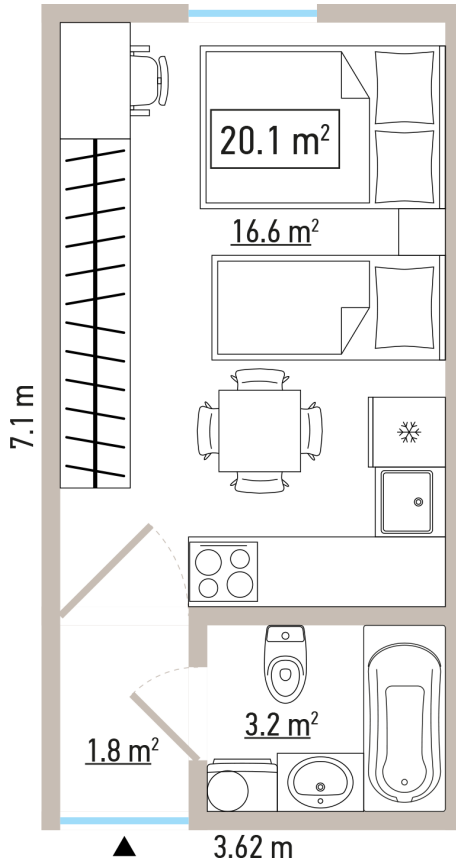
- ✓ Three types of panel profiling
- ✓ All RAL colors
- ✓ Any additional internal and external finishing





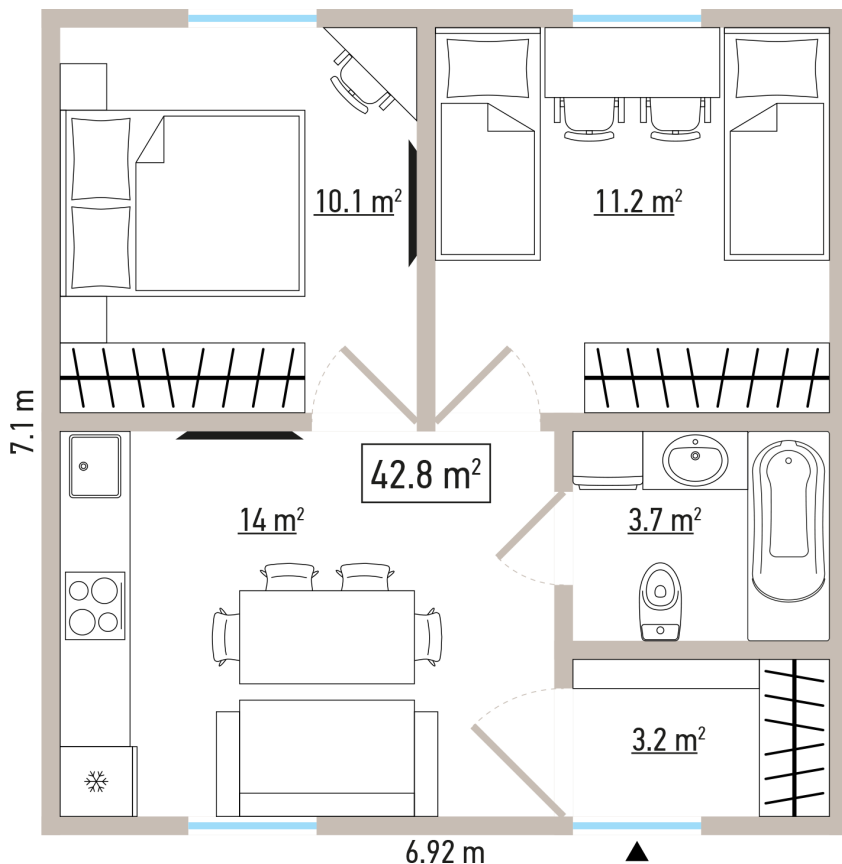
Life cycle

- ✓ High sustainability of materials
(EPD declaration, LEED and BREEAM certificates)
- ✓ Ease to disassemble and relocate buildings
- ✓ Possibility of adjusting to new functions
(recreation resorts, outpatient hospitals, administrative, trade or office buildings etc.)
- ✓ Recycling at the end of the life cycle
(steel facing used as scrape metal and PIR core re-used or burnt)



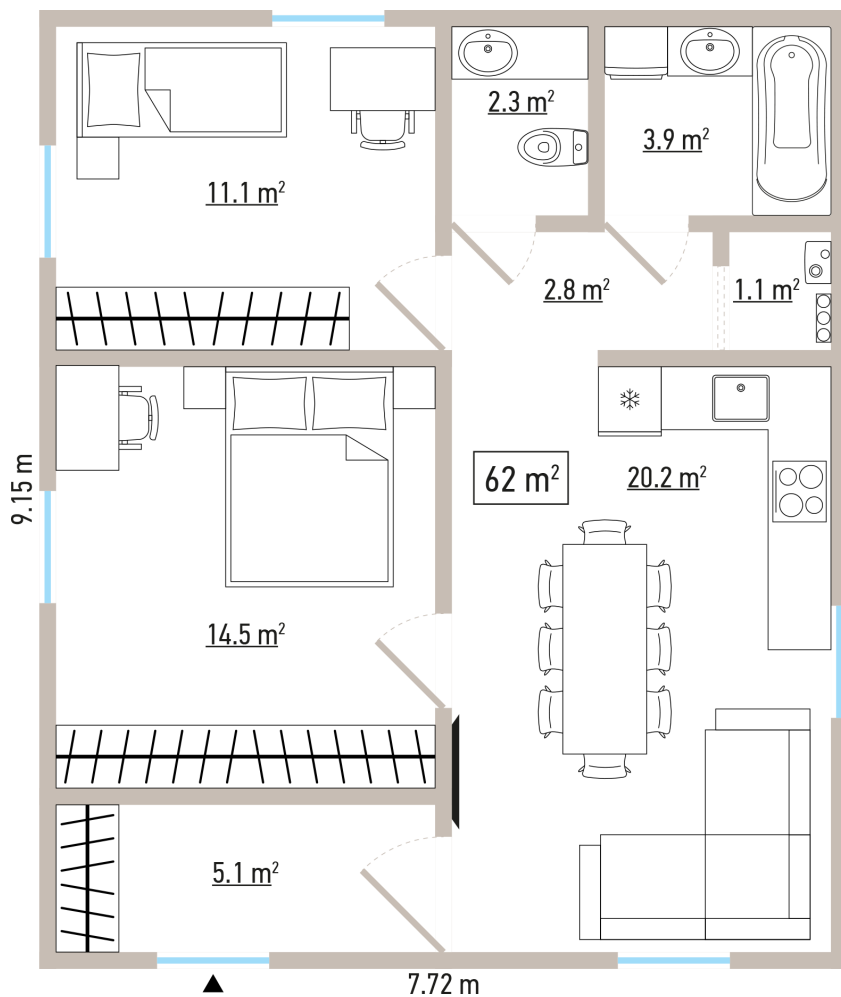
Layout 1

- ✓ Area 20.1 m²
- ✓ Lobby
- ✓ One room with a kitchenette
- ✓ Combined WC
- ✓ For 1-3 people
- ✓ Price – starting from 690 €/m²



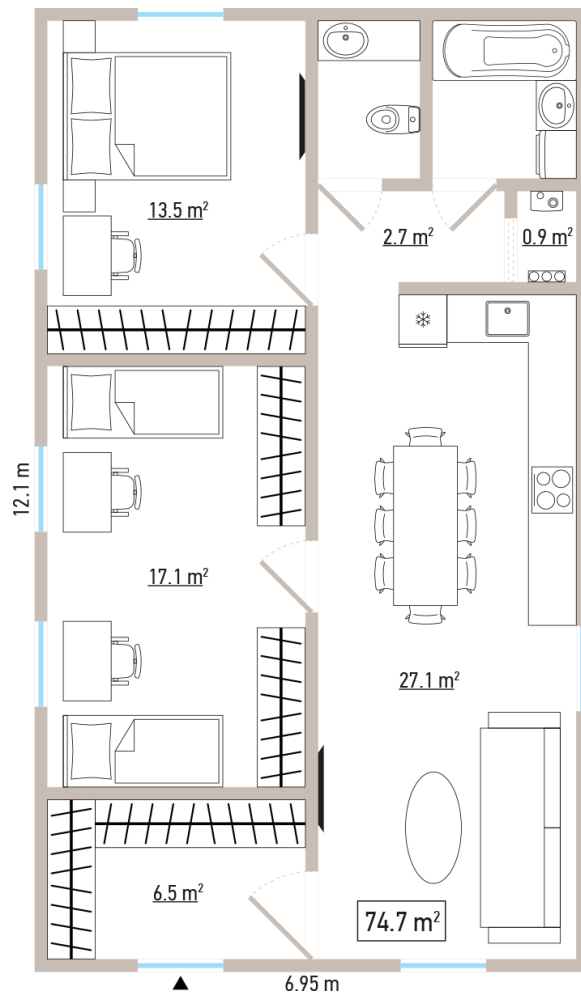
Layout 2

- ✓ Area 42.8 m²
- ✓ Lobby
- ✓ Two bedrooms
- ✓ Kitchen
- ✓ Combined WC
- ✓ For 2-4 people
- ✓ Price – starting from 650 €/m²



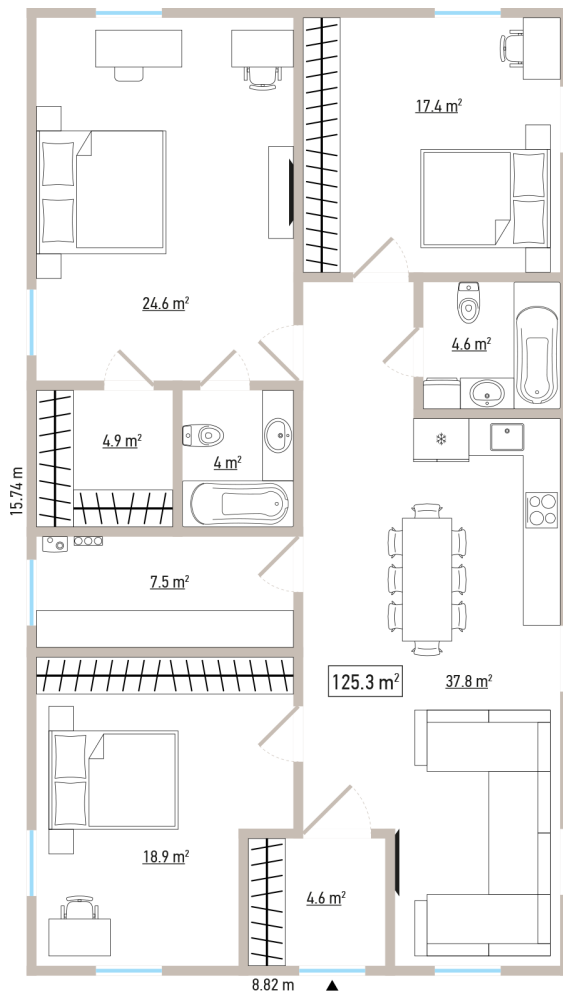
Layout 3

- ✓ Area 62 m²
- ✓ Lobby
- ✓ Two bedrooms
- ✓ Living-room with kitchen
- ✓ WC
- ✓ Bathroom
- ✓ Utility room
- ✓ For 2-4 people
- ✓ Price – starting from 650 €/m²



Layout 4

- ✓ Area 74.7 m²
- ✓ Lobby
- ✓ Two bedrooms
- ✓ Living-room with kitchen
- ✓ WC
- ✓ Bathroom
- ✓ Utility room
- ✓ For 2-4 people
- ✓ Price – starting from 650 €/m²



Layout 5

- ✓ Area 125.3 m²
- ✓ Lobby
- ✓ Three bedrooms
- ✓ Living-room with kitchen
- ✓ Guest WC
- ✓ Host WC
- ✓ Host wardrobe
- ✓ Storage
- ✓ For 3-6 people
- ✓ Price – starting from 650 €/m²

**THANK YOU
FOR ATTENTION**

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www.rauta.ua