JAK MODULES TIMBER MOBILE HOME

What sets our homes apart:

All houses are suitable for year-round living, fully equipped and turnkey:

We meet the German KFW40 standard.

We are the manufacturer. You choose how you want your house to look from our catalogues.

GL24h glulam is used for the prefabricated frame construction. The sawn timber used in the frame structure of the buildings is chamber-dried and four-sided planed. The moisture content of the structural timber is no more than 15%, as the building structure is enclosed.

The kitchen is made of high-quality materials to meet your expectations. BOSCH white goods are used.

High-quality stone tiles are used in the bathroom. GROHE fittings and VILLEROY & BOCH ceramics.

For heating, we use air conditioners that operate on the principle of a 3.5 KW heat pump with a heating function to -25 degrees, with external radiators, which according to our calculation is the most economical solution for the client. In addition, we install infrared heating panels or underfloor heating in the rooms.

We provide very long guarantees on our products.

Production time is only 10 weeks.

TECHNICAL INFORMATION

Length - 12,68 m

Width - 4,20 m

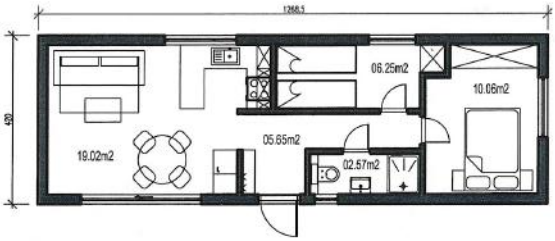
Building area - 53,27 m2

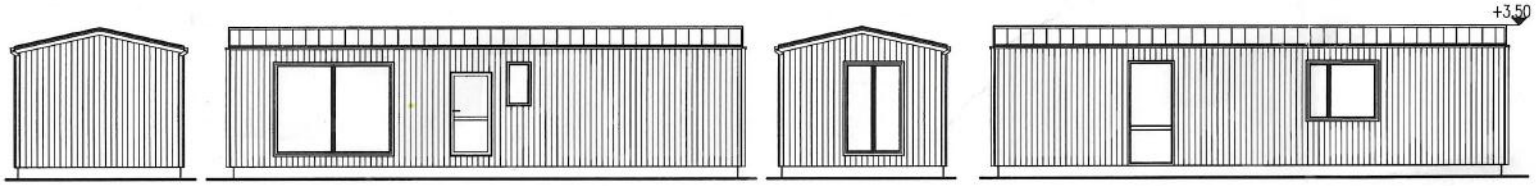
Height - 3,50 m

Weight - 11,000 kg

Area of rooms:

01. room with kitchenette - 19.02 m2
02. bathroom - 2.57 m2
03. room - 6.25 m2
04. bedroom - 10.06 m2





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Construction
The thickness of the beams used in the system is 60mm. The width of the beams can vary between 80mm and 360mm.

Thermal insulation
The building envelope of the system satisfies with excess the thermal insulation requirements valid from 2020, set out in the Regulation of the Minister of Infrastructure on the technical conditions to be met by buildings and their location (Journal of Laws of 2019, item 1065) at the level = 0.20 W/(m2 x K).

For the system envelope , the thermal transmittance is no more than 0.16 W/(m2 x K).

Ceiling, wall and roof sheathing
Due to the influence of atmospheric conditions and the properties of the boards themselves, the following moisture-resistant boards are used for sheathing of ceilings, walls and roofs: OSB/3 wood-based boards, fibre-gypsum boards from companies (e.g. Fermacell®), Steico® wood-fibre boards. Roof: Gabled roof with a pitch of 13 degrees.

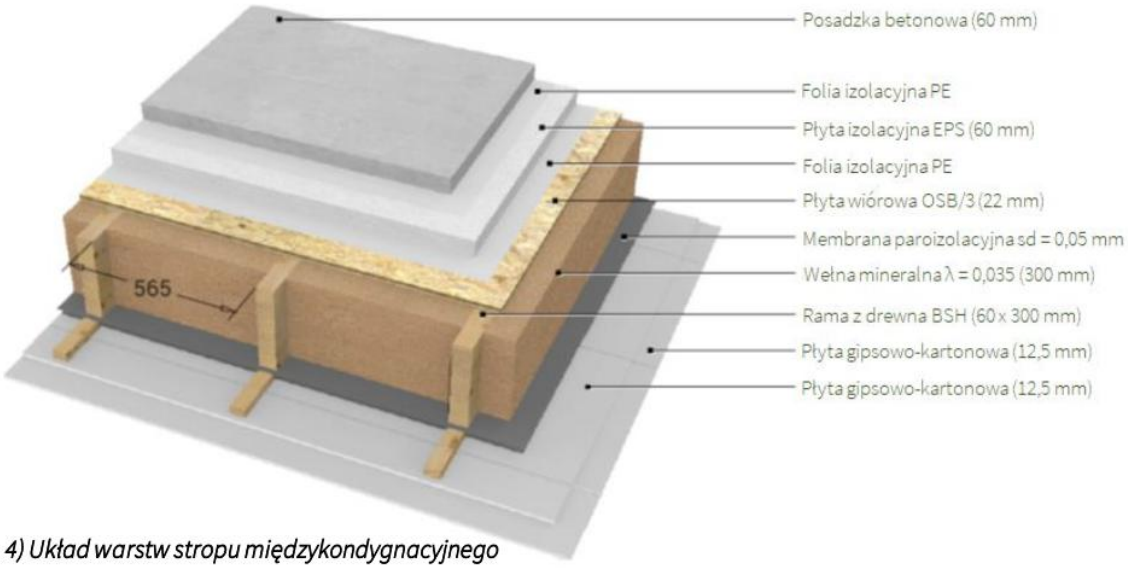
Window and door joinery:
Window joinery in anthracite colour on both sides made of PVC chambered profiles, glazing with 3-pane insulated glass. Thermal coefficient not exceeding Uw = 0.90 W/m²-K
Exterior door in anthracite colour made of UPVC on both sides with glazing in the upper part. Thermal coefficient not exceeding Uw = 0.90 W/m²-K

Façade:
Walls, roof (seam sheets) - RAL 7016
Wood decors - natural wood impregnated with a colourless impregnating agent or system facade by VINYLIT FASSADEN GmgH
Pipes Ø100 and downpipes Ø80 made of coated steel sheet.
Covers made of 0.55 mm thick coated steel sheet.

Plumbing material:
- Water system made of PE pipes
- Hot water system made of PE pipes,
- Electric hot water storage tank, capacity 50 litres
- Sanitary sewage system made of PVC pipes
- Electrical installation made of copper pipes, each model prepared for connection to a photovoltaic system
- Electric heating (800 Watt ladder heater)
- Heating/cooling air conditioner 3.5 kW
- Ventilation duct Ø100 mm
- SCHNEIDER schuko type plug sockets.
- 3 external contacts
- Electric heating water connection (anti-freeze)

Partition construction

Roof panel and soffit (inside)



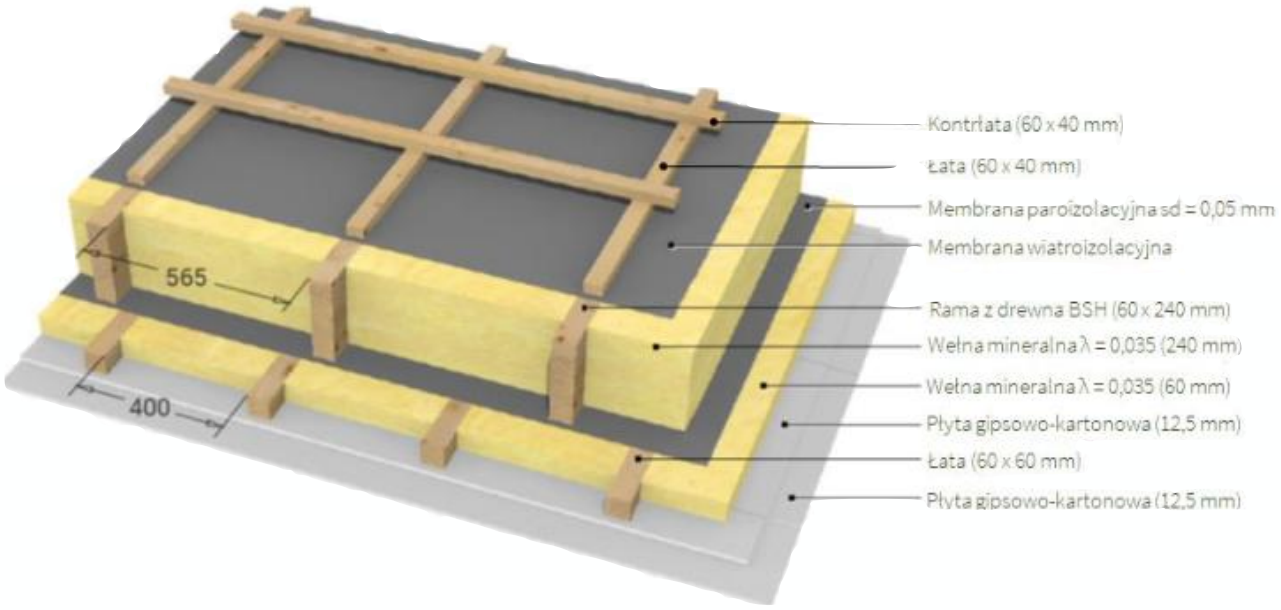
(Rys. 4) Układ warstw stropu międzykondygnacyjnego

Top finishing layer of the floor	Concrete or laid floor, depending on the design Polyethylene (PE) insulation membrane Extruded polystyrene (EPS) insulation board, 60 mm thick
Ceiling sheathing	OSB/3 wood-based board, 22 mm thick
Ceiling structure	BSH glulam frame, 60 mm thick and 300 mm wide
Acoustic insulation	Mineral wool with A = 0.035 W/(m x K), 300 mm thick Acoustic insulation > 50 dB
Moisture insulation	Vapor barrier membrane, 0.15 mm thick Water vapor permeability < 10 g/m^2/24h
Interior finishing	Batten grid, 30 mm thick and 50 mm wide *2 x drywall, 12.5 mm thick*
Thermal transmittance	0.12 W/(m^2 x K)

Note: The elements of the building envelope written in italics to be made on the construction site.

Partition construction

Roof panel and soffit (inside)



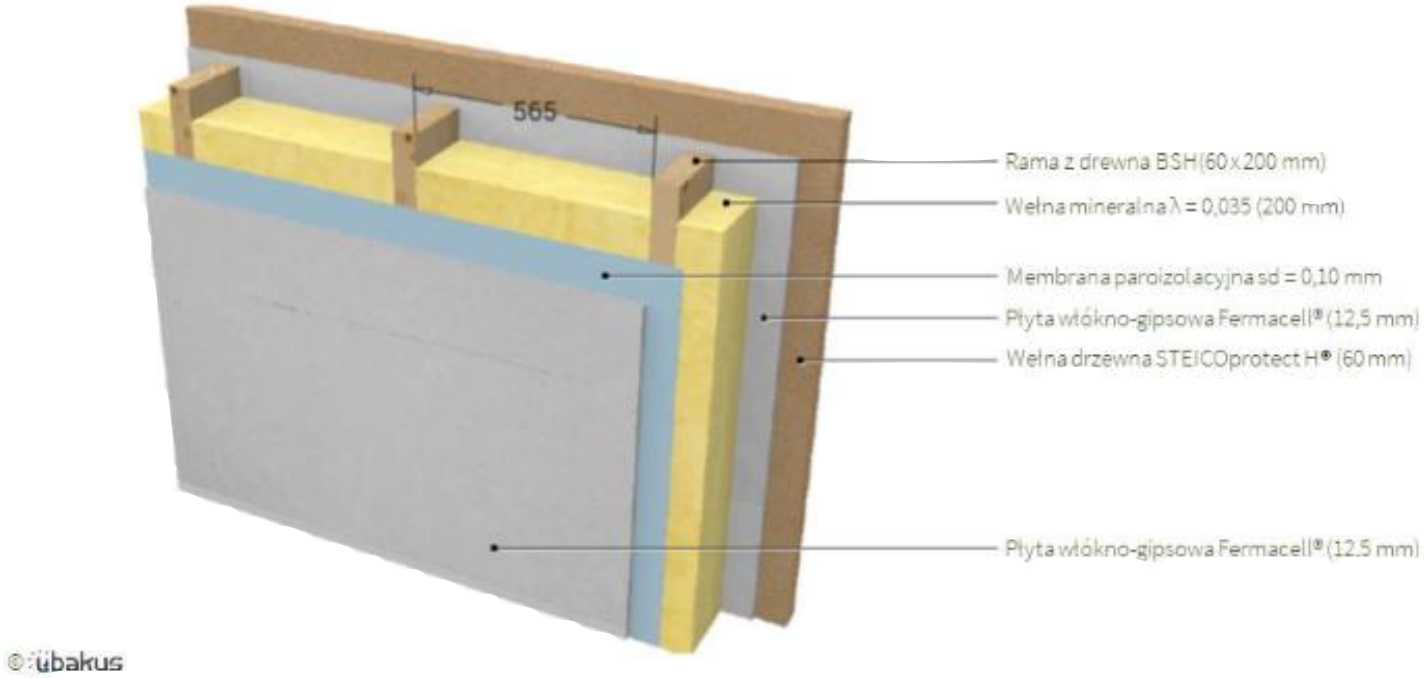
(Rys. 5) Układ warstw panelu dachowego

Interior finishing	A batten grid, 60 mm thick and 60 mm wide Mineral wool with λ = 0.035 W/(m x K), 60 mm thick; 2 x drywall, 12.5 mm thick;
Moisture insulation	Vapor barrier membrane 0.15 mm thick Water vapor permeability < 10 g/m^2/24h
Wall structure	BSH glulam frame, 60 mm thick and 240 mm wide, attached to the top plates and roof ridge
Thermal and acoustic insulation	Mineral wool with A = 0.035 W/(m2 x K), 200 mm thick Acoustic insulation > 50 dB
Wind and moisture insulation	Windproof membrane, 0.3 mm thick Water vapor permeability > 1000 g/m^2/24h
Exterior finish	Batten and counter batten grid, 30 mm thick and 50 mm wide *Steel tile or coated modular metal sheet, depending on the design, with air supply in the roof eaves and air exhaust in the ridge* *Alternatively, other roofing, laid in accordance with the relevant technical and installation requirements*
Thermal transmittance	0.14 W/(m^2 x K)

Note: The elements of the building envelope written in italics to be made on the construction site.

Partition construction

External wall (inside)



Rys. 6) Typowy układ warstw ściany zewnętrznej

Interior finishing:	Fiber-gypsum board, 12.5 mm thick (e.g. Fermacell® or Fibris®) Board glued to the panel's wood structure
Moisture insulation:	Vapor barrier membrane, 0.15 mm thick Water vapor permeability < 10 g/m²/24h
Wall structure:	BSH glulam frame, 60 mm thick and 200 mm wide
Thermal and acoustic insulation:	Mineral wool, λ = 0.035 W/(m x K), 200 mm thick Acoustic insulation > 50 dB
Exterior sheathing:	Fiber-gypsum board, 12.5 mm thick (e.g. Fermacell® or Fibris®) Board glued to the panel's wood structure
Exterior finish:	STEICOprotect® wood wool board, 60 mm thick. *Lightweight mineral plaster on fiberglass mesh glued to wood wool* *Alternatively, facade materials with a ventilation gap: vinyl siding, wood siding, brick or clinker tile, installed in accordance with the relevant technical and installation requirements*
Thermal transmittance:	0.16 W/(m² x K)

Note: The elements of the building envelope written in italics to be made on the construction site.

Materials used by JAK MODULES for interior fittings

Wall

WALL PANELS FOR INTERIOR DESIGN

Simplicity and aesthetics Interior Design wall panels are the ideal product for both walls and attics.
Our panels are a high-quality product that is functional, easy to install and has both a structural and finishing function.

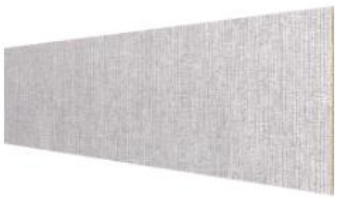
White G PP A

Light Grey Textile PAP CH

Me Twill Cream R

White Textile 426 V

Light Grey Textile V

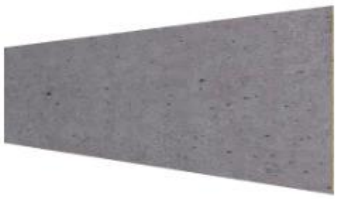


Grey Textile V

Woodec Turner Oak Malt C

Turner Oak Toffi C

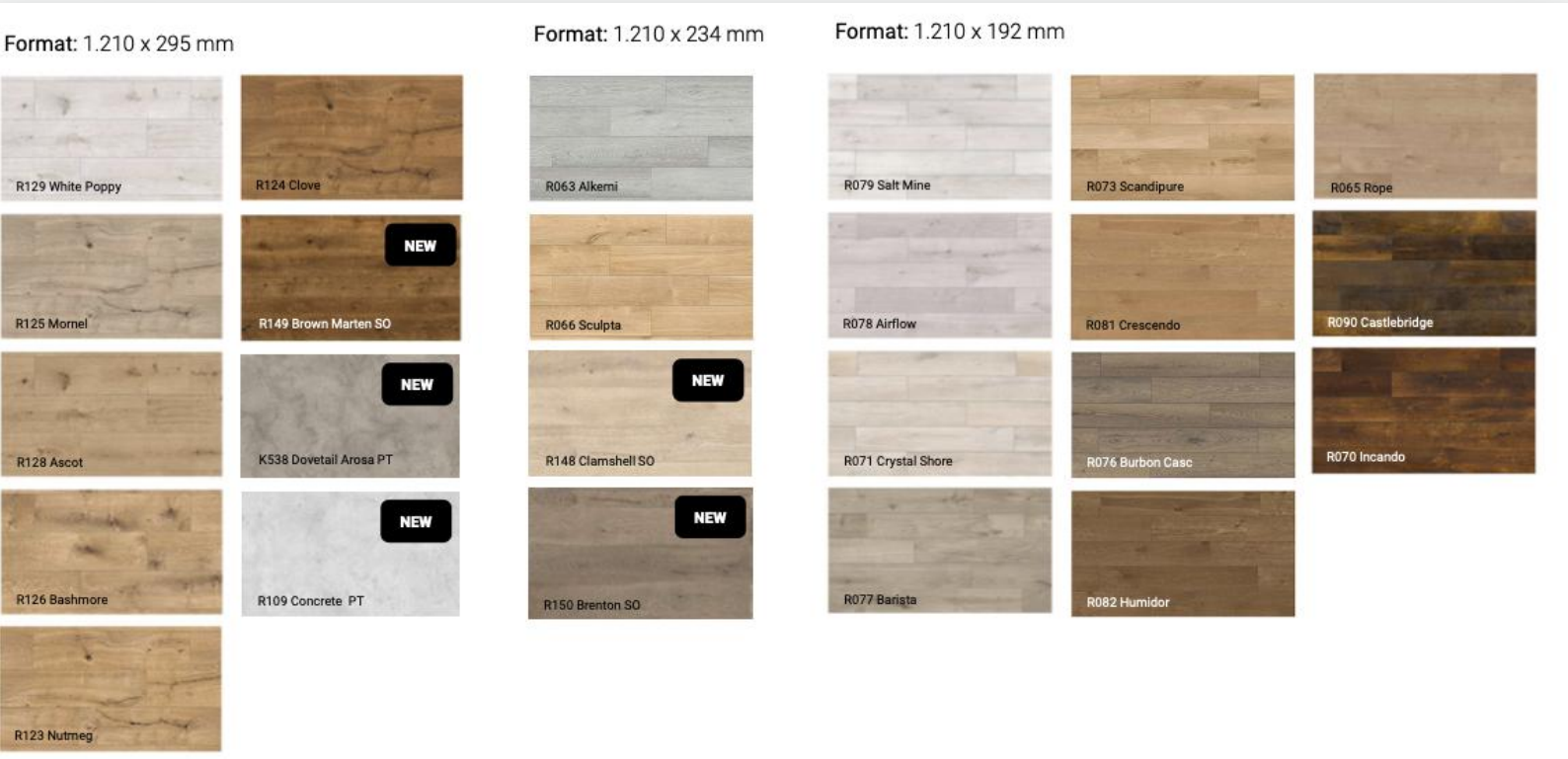
Mattex Kitami Dark C



Grey Concrete L

Flooring

We use Rocko brand vinyl panels
In our modular homes, we use SPC vinyl panels with a beautiful design and exceptional performance. They are produced using a digital printing process and provide the appearance of natural wood and stone in fine detail. As with natural flooring, the pattern changes according to the décor, allowing up to 14 m² to be installed without repeating individual panels. SPC vinyl planks are extremely dimensionally stable and therefore suitable for installation in sunny and high-traffic areas. Their water resistance and high resistance to damage and scratches make them ideal for kitchens and bathrooms and high-traffic areas.



BATHROOM

Sanitary ceramics

Since 1748, the Villeroy & Boch brand has been synonymous with high quality and beauty, with advanced ideas and techniques in ceramics. Villeroy & Boch's ambition has always been to create a home that invites you to celebrate life's moments.

BATHROOM FITTINGS

Top performance that goes beyond DESIGN

Enjoy the stunning, elegant design and reliable functionality of GROHE faucets. Unique design and innovative technologies allow you to discover a whole new level of comfort every day.

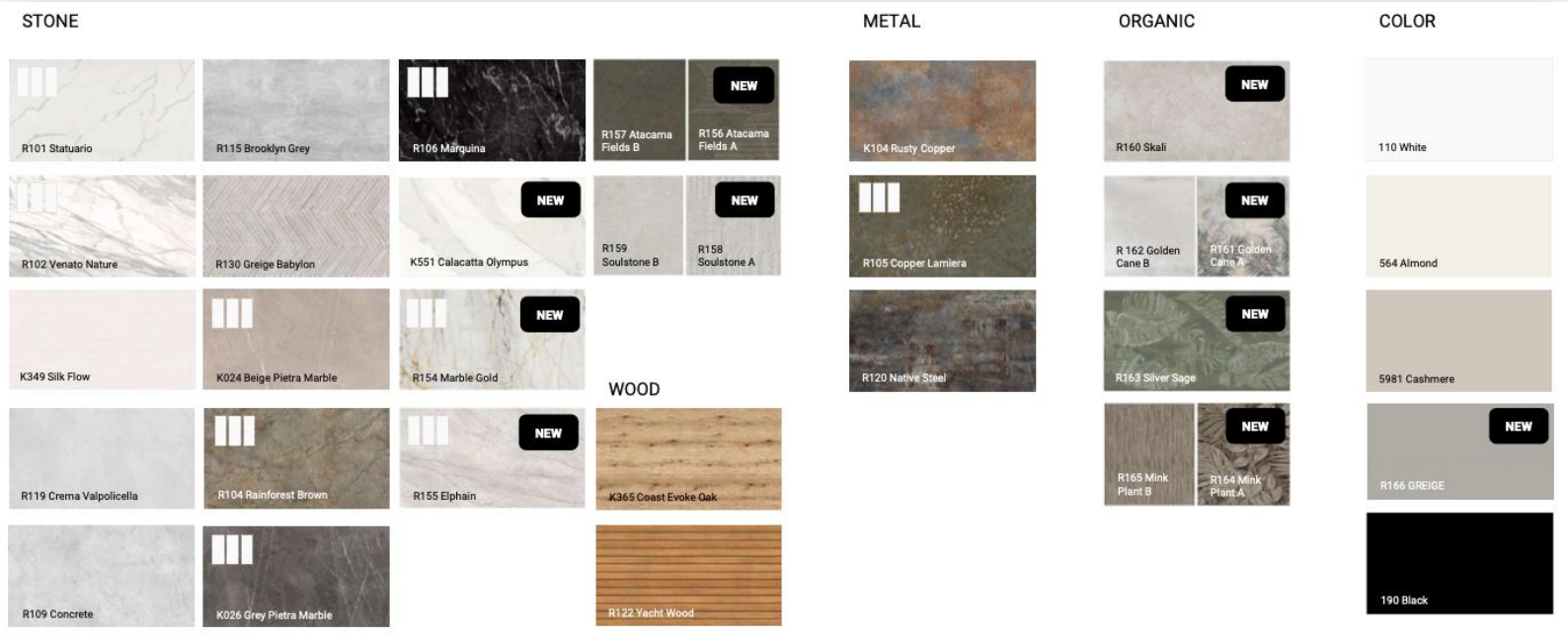
EUROPEAN MARKET LEADER IN SANITARY PRODUCTS

Operating worldwide, the Geberit Group is the European market leader in sanitary products. Geberit operates with a strong local presence in most European countries, providing unique added value in sanitary technology and bathroom ceramics.

WALL

ROCKO
by Kronospan

Rocko Tiles waterproof, large-format wall tiles are a true revolution among cladding and decorative materials.
Rocko Tiles are available in a range of fashionable designs that perfectly imitate wood, concrete or marble and can be used in living rooms, kitchens and bathrooms. The light and thin tiles replace paint, wallpaper, stoneware or ceramic tiles on the wall. Rocko tiles are completely waterproof, hygienic and dimensionally stable. They are the ideal material for finishing your dream bathroom.



KITCHEN

KITCHEN EQUIPMENT

- Induction hob
- Built-in oven
- Built-in dishwasher

BOSCH
Invented for life

Whirlpool®
HOME APPLIANCES
Designed to Simplify™

Built-in fridge-freezer

ADDITIONAL OPTIONS

Heating mat 220W/m2 integrated into the house floor, controlled by WI FI

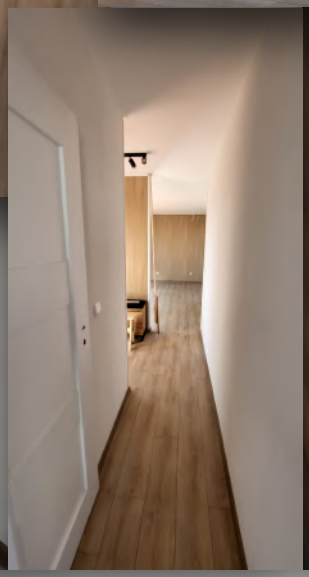
Additional modern and very economical heating system

Pleated blinds for internal windows

Triple or double air conditioning

Electric roller shutters

Photovoltaic installation with solar panels



J. A. K. MODULES

the bull under the steel frames