



KPC
PREFAB CONSTRUCTION

PRESENTATION

KNAUF PREFAB CONSTRUCTION

Construction of houses and buildings
using prefab technology

KNAUF



Cycle of the construction process with the use of Prefab structures

Traditional method of construction process



DEVELOPMENT AND DESIGN

RESOLUTION AND APPROVAL

PREPARATION OF THE SITE AND FOUNDATIONS

CONSTRUCTION BUILDING

LANDSCAPING

Prefab Construction



DEVELOPMENT AND DESIGN

RESOLUTION AND APPROVAL

PREPARATION OF THE SITE AND FOUNDATIONS

LANDSCAPING

ADDITIONAL DEVELOPER'S PROFIT

PRODUCTION OF BUILDINGS IN THE FACTORY

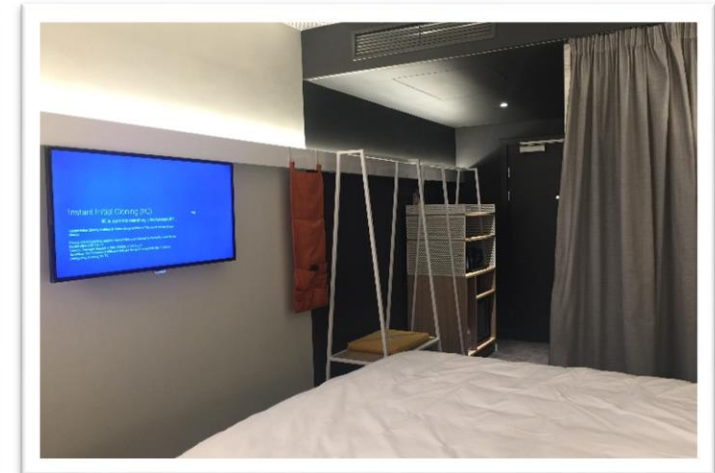
FINISHING



Knauf prefab construction. Factory in Krasnogorsk



Knauf prefab construction. Products and technologies





Knauf prefab construction. Products and technologies



Construction of a modular building using prefabricated structures



Home kit
BMB



4-9 FLOORS

Module for construction of buildings with 5-9 floors, 2 degree of fire resistance



1-4 FLOORS

Module for construction of buildings with 1-4 floors, 3 degree of fire resistance



1-4 FLOORS

Module for construction of buildings with 1-4 floors, 2 degree of fire resistance



Construction of a prefabricated building using prefabricated structures



Home kit
BCB



Facade panels (sheathed timber frame walls of plant production)

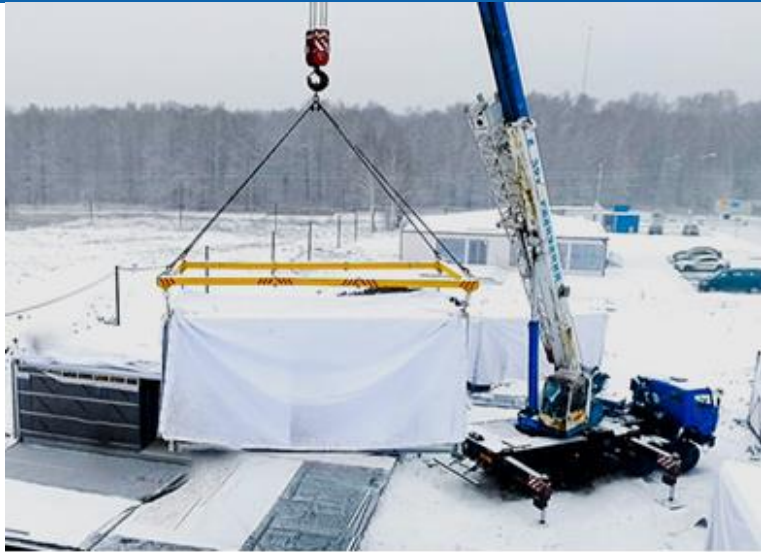


Internal partition



Sanitary Module (SM)

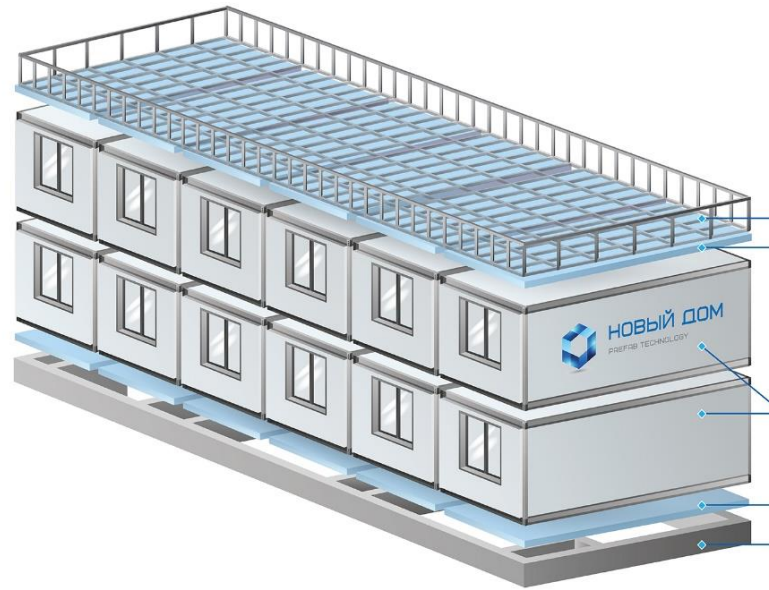
Knauf prefab construction. Modular buildings



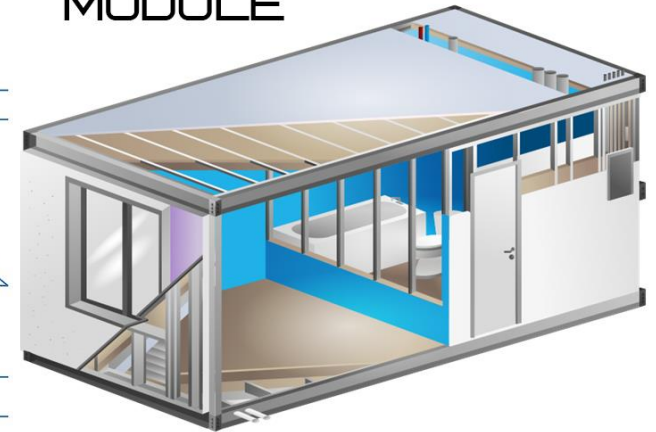
Construction using NOVIY DOM ready-made Prefab modules implies the construction using prefabricated modules. They can be manufactured with any kind of interior decoration and integrated utilities.

The works at the construction site include setting the modules on the prepared foundation, carrying out inter-module connections and connecting utilities. These works take a small amount of time, and therefore the time for completion of construction works is significantly reduced.

Construction using Prefab modules allows erecting a finished building with no wet processes at the construction site in the shortest time, the high level of module readiness increases the speed of construction.



PREFABRICATED
MODULE

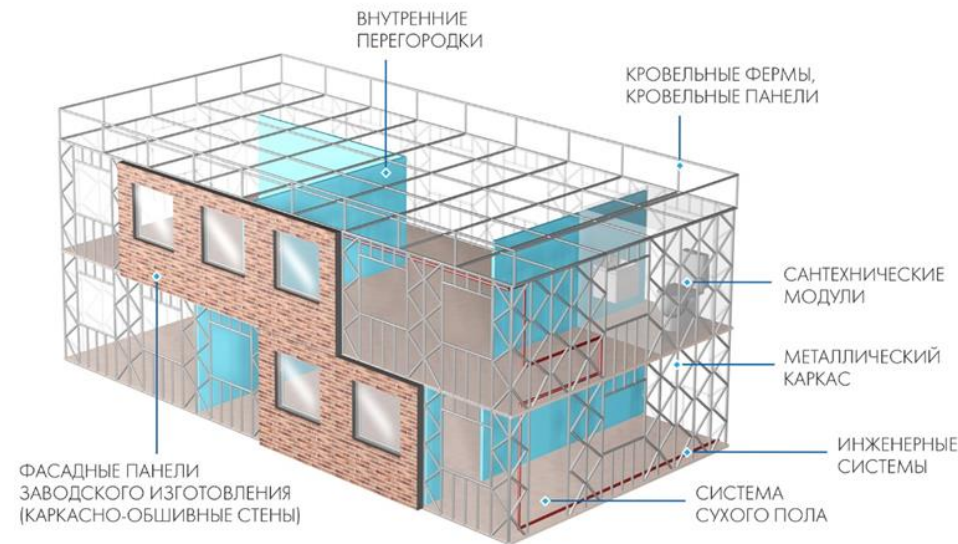


Knauf prefab construction. Prefab structures



Construction of a prefabricated building using prefabricated structures

This technology differs significantly from the modular concept and it has already proven itself as a technology of classical construction using prefabricated structures based on the construction of a metal frame building. Ferrous metal structures, light steel structures, light steel thin-walled structures and others can be used for the metal frame. The factory package/structures can be delivered either assembled or packaged (ready for final assembly) with installation instructions. Construction using the factory package is a quick and economical building method.



Specification:

- metal frame
- Engineering systems
- Factory-made facade panels (frame-sheathing walls)
- Internal partitions
- Roof trusses and trusses, parapet frames (for flat roofs)
- Plumbing Modules
- Dry floor system

Knauf prefab construction. Façade panels



Facade panel (exterior wall)

- The overall size is determined according to the project.
- It can be used for the construction of low-rise and multi-storey buildings with mounting on a reinforced concrete or metal frame of the building



Types of buildings for construction using prefab:



Single-family homes,
townhouses



Hotels, hotels



Apartment buildings



Kindergartens, schools



Offices and administrative
buildings



Medical facilities,
observatories, outpatient
clinics

KPC experience in implementing ready-made objects using Prefab



Computed tomography buildings



Private pension for pensioners



Multifunctional center



Hotel

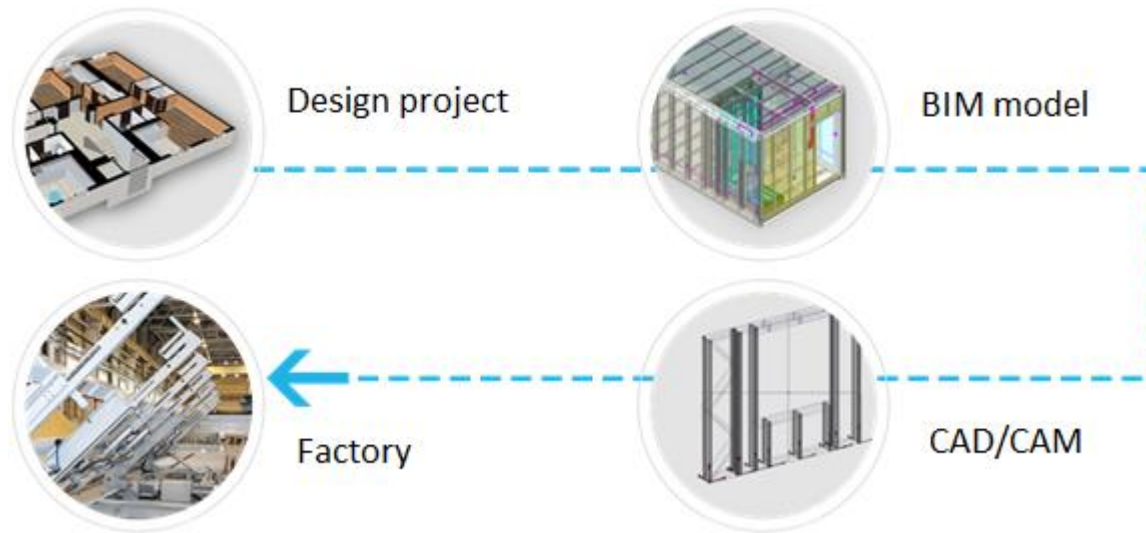


Kindergarten



Single- family house in Finland

BIM modeling in design and manufacturing



Knauf prefab construction provides a full range of services:

- Configuration of modular buildings
- Development of the BIM modeling concept
- Preparation and release of project documentation
- Preparation and release of working documentation
- Preparation and release of production documentation
- Modeling for CNC machine tools



BIM models allow designers to obtain complete characteristics, specifications, volumes of materials and elements of both each module and the modular house as a whole.