RIM GROUP

TRADE-PRODUCTION-INVESTMENT
GROUP OF COMPANIES

SMART CONSTRUCTION

RIM GROUP
Management Company

RIMMARKET
Trade – customer research

TEPLOSTROYPROYEKT-S
From Incoming Request to Contract Execution

RIMBUILDING
Innovation and R&D
From Idea to Project Realization
Technologie

BUILDING THE FUTURE!

RIM GROUP

INDUSTRIAL AND CIVIL CONSTRUCTION

INVESTMENT ATTRACTION

COMMERCIAL ACTIVITY
GOODS AND SERVICES

PRODUCTION PROCESS
PTD, DI, FACTORY, CID, WARRANTY AND POST-WARRANTY SERVICE

INNOVATION ACTIVITY

RAPIDLY DEPLOYABLE CAPITAL HYBRID "SMART" CONSTRUCTION – FROM -2 UP TO 40 FLOORS

RAPIDLY DEPLOYABLE MODULAR "SMART" BUILDINGS FROM -2 UP TO 3 FLOORS

"SMART VILLAGE" PROJECT

"SMART DISTRICT" PROJECT

"SMART CITY" PROJECT

"SMART STATE" PROJECT

GENERAL PLAN – VISUAL REPRESENTATION OF RIM GROUP'S DEVELOPMENT PATH

1 

SMART CONSTRUCTION

1.2. 

CAPITAL HYBRID "SMART" CONSTRUCTION – FROM -2 TO 40 FLOORS

1.1. 

RAPIDLY DEPLOYABLE MODULAR "SMART" BUILDINGS FROM -2 TO 3 FLOORS

1.3. 

"SMART VILLAGE" PROJECT

1.4. 

"SMART DISTRICT" PROJECT

1.5. 

"SMART CITY" PROJECT

1.6. 

"SMART STATE" PROJECT

2 

TRIGENERATION AND VENTILATIONRECONSTRUCTION AND MODERNIZATION OF ENGINEERING SYSTEMS, TRANSITIONING TO "SMART" SOLUTIONS

2.1. ELECTRIC NETWORKS

2.2. GAS SUPPLY SYSTEMS

2.3. DIESEL INFRASTRUCTURE

2.4. HEAT SUPPLY

2.5. HOT WATER SUPPLY

2.6. VENTILATION

2.7. COOLING SYSTEMS

2.8. RECONSTRUCTION AND MODERNIZATION OF ENGINEERING SYSTEMS WITH A TRANSITION TO "SMART" SOLUTIONS

3 

METAL STRUCTURES, BRIDGE CONSTRUCTION

3.1. STRUCTURAL METAL CONSTRUCTIONS

3.2. TOWER METAL STRUCTURES

3.3. METAL STRUCTURES FOR THE ENERGY SECTOR

3.4. METAL STRUCTURES FOR ANTENNA MAST STRUCTURES

3.5. NON-STANDARD METAL STRUCTURES

3.6. METAL STRUCTURES FOR THE ADVERTISING INDUSTRY

3.7. METAL STRUCTURES FOR GATES AND DOORS

3.8. METAL CANOPY STRUCTURES

3.9. ENCLOSURE METAL STRUCTURES

3.10. BRIDGE CONSTRUCTION

4 

READY-MADE SOLUTIONS FOR BUSINESS

4.1. INDUSTRIAL FACILITIES

4.2. CIVILIAN FACILITIES

4.3. AGRICULTURAL FACILITIES

4.4. RENOVATION, RECONSTRUCTION, AND MODERNIZATION WITH THE TRANSITION FROM OLD TO NEW – "SMART"

5 

HOUSE COMPLETION
PROJECT COMPLETION
ONLINE STORE

5.1. GENERAL CONSTRUCTION DIRECTION

5.2. ENGINEERING DIRECTION

5.3. INTERIOR FILLING

5.4. SMART HOME AND PROJECT MANAGEMENT

6 

TOP 99 COMMERCIAL PRODUCTS

7 

TOP 99 RETAIL PRODUCTS

8 

TOP 99 SMART PRODUCTS AND TECHNOLOGIES

9 

SUPPLIER ALLIANCE

10 

SERVICES

10.1. ENERGY AUDIT

10.2. DEVELOPMENT OF A TECHNO-COMMERCIAL PROPOSAL

10.3. FEASIBILITY STUDIES AND CALCULATION OF KEY FINANCIAL INDICATORS FOR CAPITAL INVESTMENTS

10.4. STRUCTURING OF PROJECT FINANCING MODELS

10.5. ENGINEERING DESIGN WITH INVOLVEMENT OF INTERNATIONAL EXPERTS

10.6. NON-DESTRUCTIVE TESTING LABORATORY SERVICES

10.7. COORDINATION WITH OEMS (ORIGINAL EQUIPMENT MANUFACTURERS) ON ALL ORDER-RELATED ASPECTS

10.8. EQUIPMENT PROCUREMENT AND SOURCING

10.9. LEGAL AND FINANCIAL SUPPORT OF CONTRACTS

10.10. ORDER EXECUTION MONITORING AND EQUIPMENT LOGISTICS TO CONSTRUCTION SITES

INSTALLATION OVERSIGHT

COMMISSIONING AND START-UP WORKS

AFTER-SALES SERVICE ORGANIZATION AND TRAINING OF OPERATIONAL PERSONNEL

11 

WARRANTY SUPPORT

11.1. WARRANTY MAINTENANCE AND REPAIR OF EQUIPMENT THROUGHOUT THE WARRANTY PERIOD OF OPERATION

12 

POST-WARRANTY SUPPORT

12.1. POST-WARRANTY SERVICE AND REPAIR OF EQUIPMENT AFTER THE WARRANTY PERIOD

12.2. GENERAL SERVICE AND MAINTENANCE WORKS

12.3. TECHNICAL SUPERVISION

12.4. SCHEDULED (PREVENTIVE) MAINTENANCE AND SERVICING OF OPERATING EQUIPMENT

12.5. REPAIR OF FAULTY EQUIPMENT AND DISMANTLING PERFORMED BY OUR IN-HOUSE SPECIALISTS

12.6. SPECIALIZED REPAIR OF CUSTOM OR UNIQUE EQUIPMENT

CONTENT

COMMERCIAL ACTIVITY

GOODS AND SERVICES

RAPIDLY DEPLOYABLE CAPITAL HYBRID
«SMART CONSTRUCTION FROM -2 UP TO 40 FLOORS

- UNDERGROUND SECURITY ROOMS
- RESIDENTIAL BUILDINGS
- SOCIAL FACILITIES

RAPIDLY DEPLOYABLE MODULAR “SMART”
BUILDINGS FROM 1 UP TO 3 FLOORS

“SMART VILLAGE” PROJECT

“SMART DISTRICT” PROJECT

“SMART CITY” PROJECT

“SMART STATE” PROJECT

PRODUCTION PROCESS

(PRODUCTION AND TECHNICAL DEPARTMENT (PTD), DESIGN INSTITUTE (DI), FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT (CID), WARRANTY AND POST-WARRANTY SERVICE)

COMPLETED PROJECTS PORTFOLIO – 30 YEARS
OF EXCELLENCE

UNDERGROUND SECURITY ROOMS

SUBTERRANEAN FLOORS MAY INCLUDE THE FOLLOWING SPACES:

1 SAFETY CAPSULE

2 SECURITY ROOM

3 FACILITY SECURED AGAINST EXTERNAL INTRUSION

4 RESIDENTIAL FIRE SAFETY ROOM

5 «SMART VAULT» FACILITY

6 ARMORY

7 SECRET ROOM

8 TUNNEL EXIT TO YARD

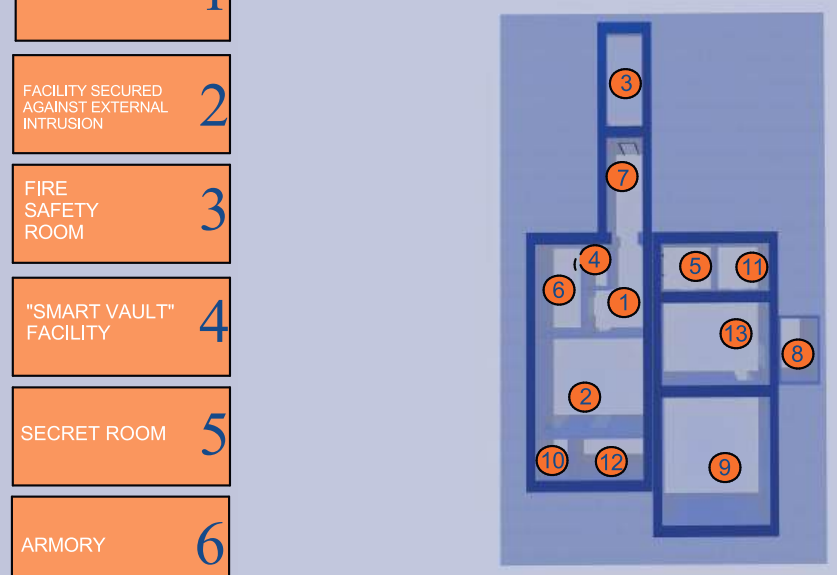
9 TUNNEL FROM HOUSE TO HOUSE

10 CAR ELEVATOR

SAFETY CAPSULE

«The Life Capsule is a steel structure that can be installed in high-rise apartments, private houses and office buildings. It can protect not only from shelling, but also from earthquakes. This room is designed to protect against fire and high temperatures in cases where it is impossible to leave the building. The room has a ventilation and air filtration system, a gas-tight sealed door, an emergency air hatch, water tanks, etc.

Master plan of the house with tunnel access to the safety capsule



1 SECURITY ROOM

2 FACILITY SECURED AGAINST EXTERNAL INTRUSION

3 FIRE SAFETY ROOM

4 "SMART VAULT" FACILITY

5 SECRET ROOM

6 ARMORY

7 EXIT TUNNEL TO THE CAPSULE

8 TUNNEL FROM HOUSE TO HOUSE

9 UNDERGROUND GARAGE ELEVATOR

10 RESTROOM

11 BATHROOM

12 ELEVATOR

13 LIVING ROOM

BASEMENT

FACILITY SECURED AGAINST EXTERNAL INTRUSION

The burglary-protected room is located on the basement floor and is designed to protect residents from intruders. It is equipped with a reinforced door with a code lock, which prevents unauthorized access. It provides security and can be integrated into existing facilities.

FIRE SAFETY ROOM

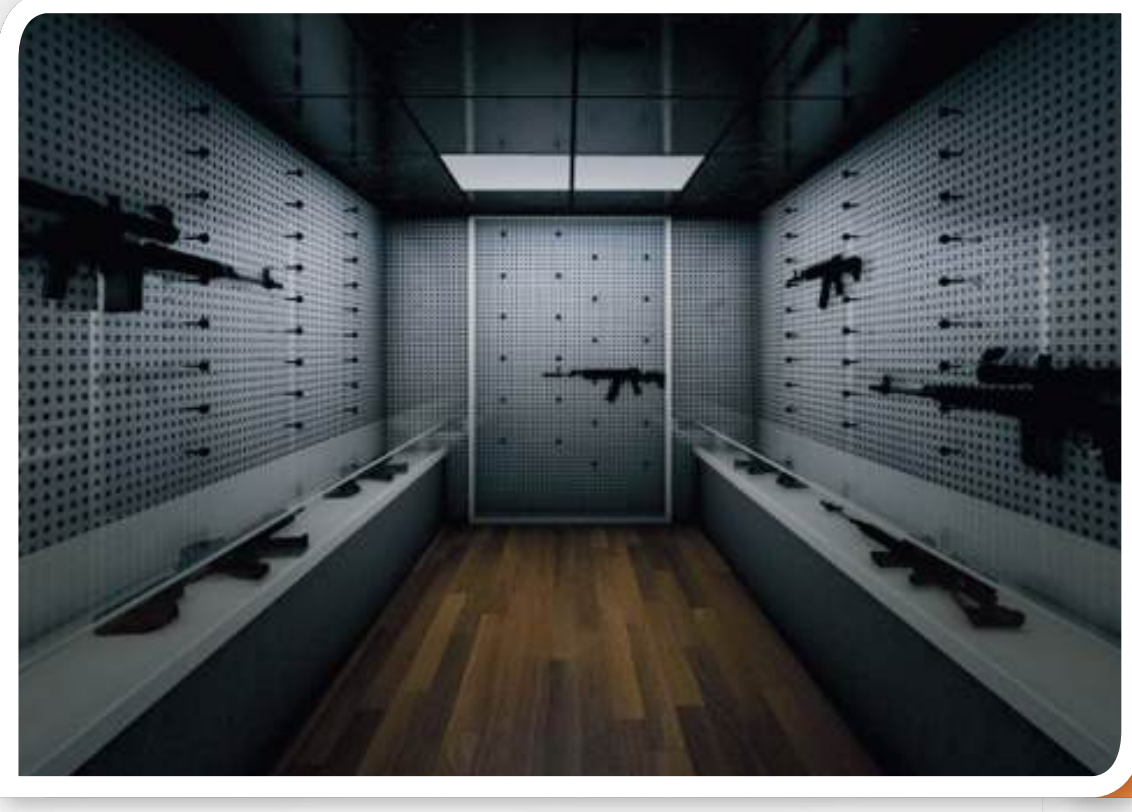
The fire safety room is designed to ensure the safety of people when evacuation is not possible. It is equipped with a ventilation and air filtration system, a sealed gas-tight door, an emergency hatch and water tanks.
This design protects against high temperatures and ensures survival in emergency situations.

«SMART VAULT» FACILITY

A «smart vault» facility is a secure storage space for protecting documents and valuables from unauthorized access. It combines robust construction and intelligent technology. Remote management, one-time passwords and access notifications can be configured for a high level of security and control.

THE SECRET ROOM

A secret compartment is used for concealed storage of valuables, weapons or safes. It provides additional security by protecting the contents from unauthorized persons. It complies with burglary and fire protection standards and conceals access to the vault, thus increasing the level of protection of the property.



ARMORY

A weapons storage room is a room with a burglary resistance class of at least 1 designed for the safe storage of firearms and ammunition. It complies with the requirements of the «Weapons Act», preventing access by unauthorized persons and safeguarding property. The secret doors increase the security level of the storage area.

TUNNEL EXIT TO YARD

The emergency tunnel with emergency exit outside the house is intended for emergency evacuation. It provides a safe way out of the building when the main exit cannot be used.

A TUNNEL FROM HOUSE TO HOUSE

A house-to-house tunnel is an underground horizontal structure connecting two neighboring buildings.
It is designed for safe and fast passage between houses in emergency situations.

UNDERGROUND GARAGE

The underground garage is equipped with a lifting mechanism installed in a pit below the floor level. When the platform is lowered, the garage is covered by a roof that supports the weight of a heavy off-road vehicle.
The system is operated by means of a push button and a special key to activate the lift system.

LIVING HOUSES

1-STOREY CAPITAL HYBRID HOUSE

Intelligent control systems make your home as comfortable as possible. The automation of lighting, climate control and security ensures a high level of comfort and safety. A hybrid approach allows traditional engineering solutions to be integrated with modern digital technologies, creating a smart home that adapts to the owner's needs. The fast-erecting technology shortens construction time, while the modular structure allows for future expansion or reconfiguration.

LIVING HOUSES

2-STOREY CAPITAL HYBRID HOUSE

The 2-story house is a comfortable and spacious dwelling for the whole family. It has a solid construction that can withstand any weather conditions.
The walls are made of modern materials that keep warm in winter and cool in summer. The large windows provide plenty of light and the ergonomic layout makes the space comfortable. The house has everything you need for living: kitchen, living room, bedrooms and bathrooms.

LIVING HOUSES

3-STOREY CAPITAL HYBRID HOUSE

A 3-storey house built using the technology of fast-erecting capital hybrid construction combines reliability, speed of erection and modern technologies. The frame-monolithic or modular system ensures the strength of the structure, while the insulated walls help to retain heat.
Thanks to the hybrid approach, the house can be adapted to different needs: you can choose traditional materials or innovative energy-efficient solutions. Panoramic windows flood the rooms with light, while the well-designed layout makes the space comfortable and functional.

LIVING HOUSES

4-STOREY CAPITAL HYBRID HOUSE

Thanks to its design, the 4-storey house provides more living space, allowing you to accommodate all the necessary rooms and spaces by utilizing the underground floor. On the first floor there is a living room, kitchen, dining room, bathrooms and dressing rooms. On the second floor there are sleeping rooms, a children's room, a study or a library.
The hybrid capital house has a solid and reliable construction, which guarantees its durability and resistance to various weather conditions. Such a house provides good thermal insulation, which allows you to save on heating costs.

LIVING HOUSES

5-STOREY CAPITAL HYBRID HOUSE

The five-storey mansion is characterized by high ceilings and spacious rooms. Large balconies and open terraces all around the perimeter of the house allow you to enjoy stunning views from every room, whether it is a bedroom, living room or bathroom. 5-storey mansion from RIM GROUP consists of rooms of different purposes. The house can be lived in isolation for long periods of time and all life support systems can work for long periods of time. Network gas supply allows to minimize maintenance and service costs, «smart home» system regulates consumption and maintenance of temperature regime and humid air.

STYLES OF WORLD ARCHITECTURE FROM RIM GROUP

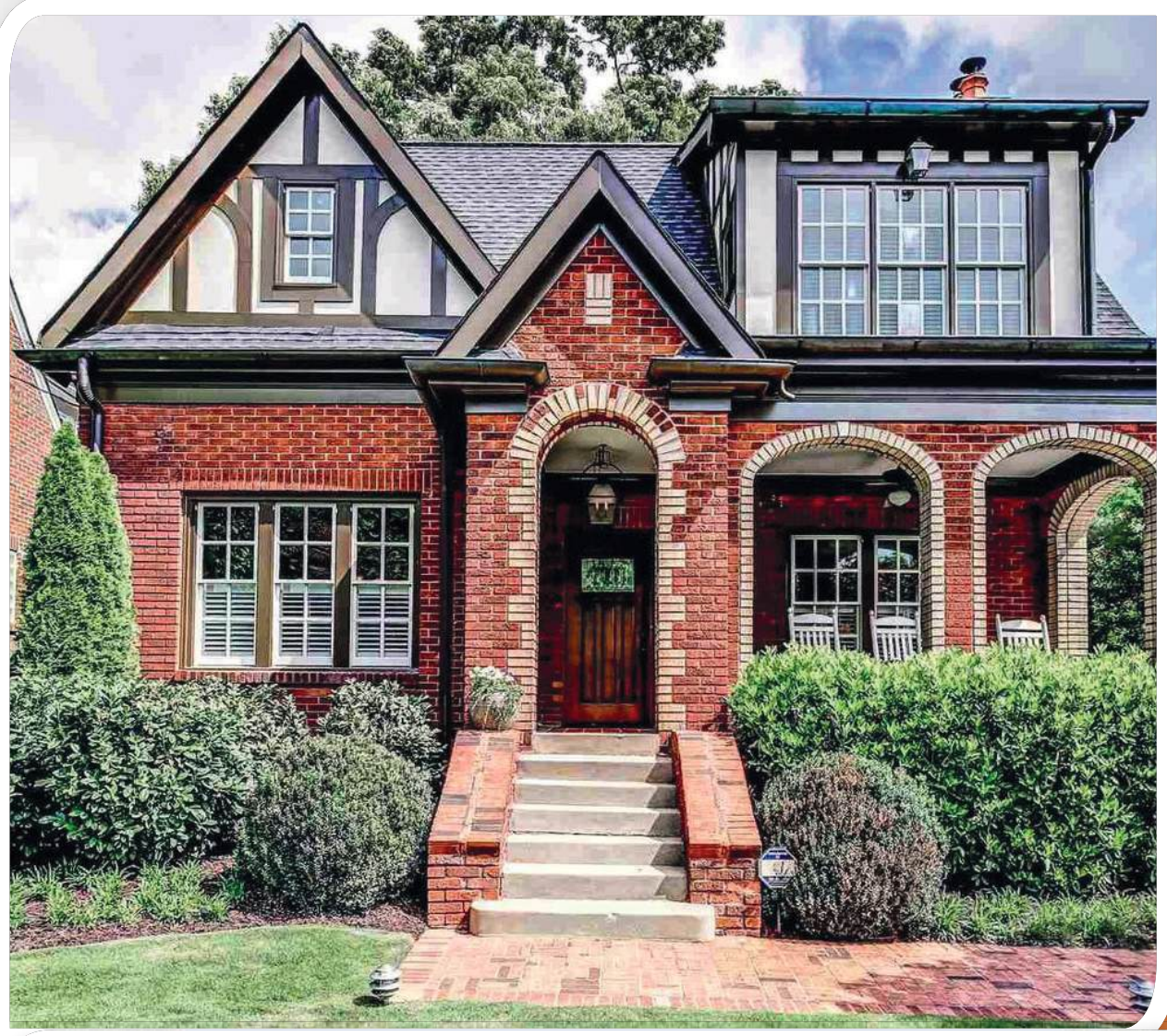
ENGLISH STYLE (TUDOR STYLE)

MAIN FEATURES:
- asymmetrical plan and appearance of the structure;
- high gables;
- half-timbering (a load-bearing framework of beams and struts visible from the outside);
- steep, hip roofs;
- tall, highly visible chimney;
- small hinged windows;
- hearing windows (often round, like portholes);
- a grand entrance trimmed with large stone.

ENGLISH STYLE (GEORGIAN STYLE)

MAIN FEATURES:
- symmetrical layout in the form of a rectangle;
- high plinth;
- brick walls with discreet decorations;
- identical, synchronized windows;
- entrance with portico and decorative canopy;
- front door with fillets and semi-columns;
- medium pitched roof with minimal overhang.

VICTORIAN STYLE



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- tall, highly visible chimney;
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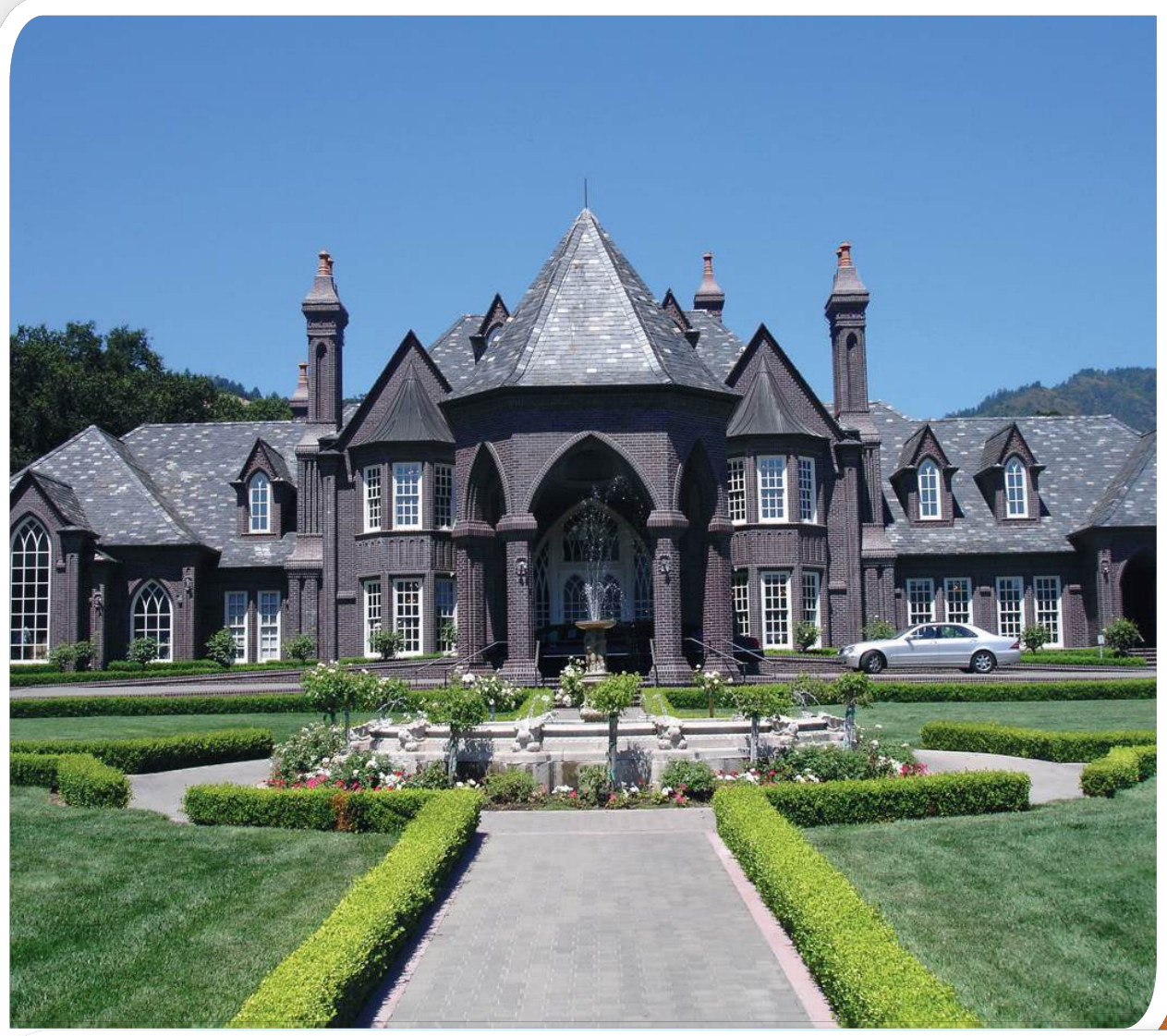
- hearing windows (often round, like portholes);
- a grand entrance trimmed with large stone.

BAROQUE STYLE (MONUMENTAL OPULENCE)

MAIN FEATURES:
- use of expensive materials, rich decoration of interiors; - forms, lines and compositions often asymmetrical and saturated, creating a sense of movement; - play of light and shadow, bright contrasts in colors; - abundance of ornaments, stucco, gold elements, openwork details; - large scale constructions, grandiose decorations; - desire to evoke strong feelings in the viewer through sophistication and grandeur.

GOTHIC HOUSES



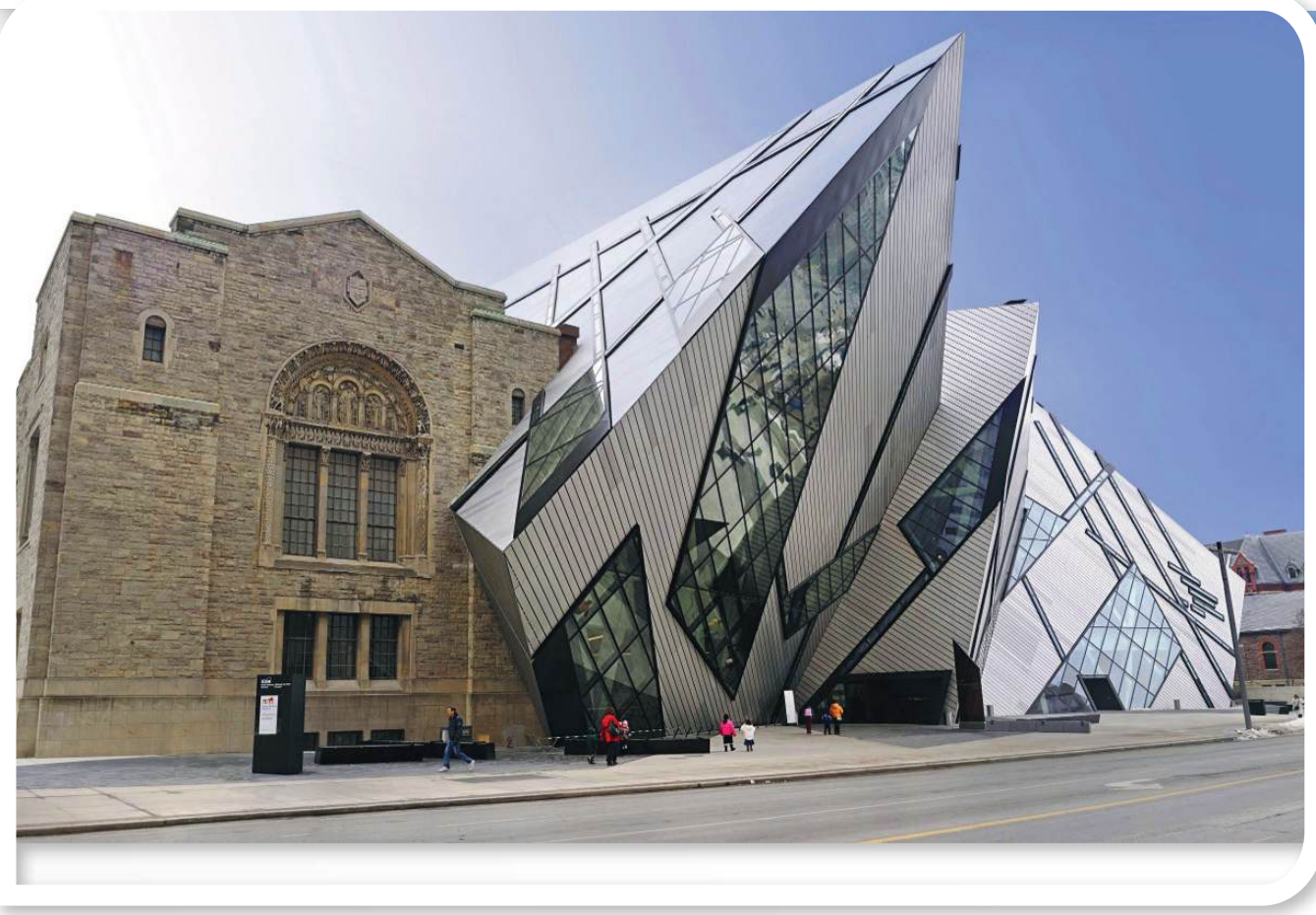
MAIN FEATURES:

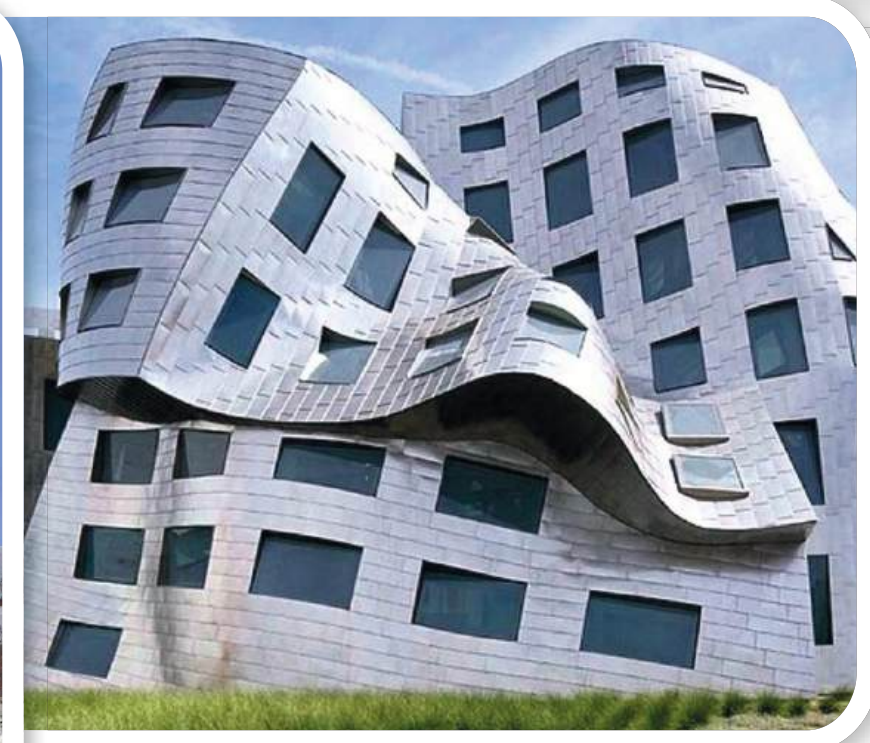
- high vertical lines, pointing upward;
- pointed arches in windows and doors;
- large stained glass windows with colored patterns;
- buttresses and arcbutans to support the walls;
- rich carvings and decorative elements;
- rosette windows with stone lace;
- pointed spires and towers;
- lancet vaults and columns inside;
- dark, rich interior colors.

AVANT-GARDE STYLE (DECONSTRUCTIVISM)

MAIN FEATURES:

- The structures are curvilinear, their corners «undercut» or, on the contrary, jutting out with their many points from the disproportionate walls. -The construction combines different construction technologies; windows of bizarre shapes may be located in the most unexpected places or may not be present at all.





DUTCH STYLE

MAIN FEATURES:

- tall, large windows divided into rectangular portions;
- bright brick walls with white stone trim;
- pointed gable roof;
- symmetry of the facade;
- stepped or bell-shaped pediment crowning the upper part of the building.

EUROPEAN STYLE (GERMAN STYLE)

MAIN FEATURES:

- simple in its construction of the roof. The roof pitches are no more than four;
- the presence of a plinth, which is tiled with stone, natural or artificial.
- various balconies and bay windows;
- window designs are usually in the form of arches or rectangles;
- entrance doors are often wooden, sometimes even different in color from the window groups and the entire facade;
- the entrance group is represented by a low concrete staircase with a small number of steps and a small canopy over it;
- the houses are one-story or two-story.

EUROPEAN STYLE (SCANDINAVIAN STYLE)

MAIN FEATURES:
- the presence of an attic;
- does not have a basement or a plinth;
- houses are one-story, less often with two floors
- finishing of facades with wood;
- the roof in Scandinavian-type houses can be flat, but it is rarely installed on buildings because of the complexity of snow removal and its melting in the spring;
- window openings and frames are large, panoramic glazing may be used;
- bay windows and balconies are absent in Scandinavian style buildings, and carved wooden elements serve as facade decorations.
- porches often have wooden stairs with carved balusters.

ITALIAN STYLE (NEO-RENAISSANCE)

MAIN FEATURES:
- low tile roofs;
- wide eaves on brackets;
- decorative roof tower, often with a cupola and panoramic glazing;
- arched or narrow «floor-to-ceiling» windows;
- corner bay windows;
- multiple stories;
- wood roofing;
- wrought iron railings on roofs, loggias and balconies.

COUNTRY STYLE

MAIN FEATURES:
- the presence of elements of facade decor corresponding to national traditions;
- the use of a large amount of solid wood and other natural materials;
- small window openings with shutters, platbands and window sills;
- the presence of small balconies with closed wooden or cast-iron railings;
- a frequent element is a veranda with rectangular posts decorated with decorative facade tiles;
- roofs, as a rule, are complex, four- and two-pitched, covered with tiles, straw or shingles;
- the foundation is quite low and most often not decorated in any way.

COUNTRY STYLE (AMERICAN COUNTRY)

MAIN FEATURES:
- the presence of elements of facade decor corresponding to national traditions;
- the use of a large amount of solid wood and other natural materials;
- small window openings with shutters, platbands and window sills;
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COUNTRY STYLE (ENGLISH COUNTRY)

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- the presence of elements of facade decor corresponding to national traditions;
- the use of a large amount of solid wood and other natural materials;
- small window openings with shutters, platbands and window sills;
- the presence of small balconies with closed wooden or cast-iron railings;
- a frequent element is a veranda with rectangular posts decorated with decorative facade tiles;
- roofs, as a rule, are complex, four- and two-pitched, covered with tiles, straw or shingles;
- the foundation is quite low and most often not decorated in any way.

CLASSIC STYLE

MAIN FEATURES:
- snow-white columns adorning the entrance group;
- large balconies;
- antique pediments;
- shaped balustrades and parapets;
- projecting interstorey cornices;
- exquisite platbands;
- ornamental bas-reliefs (meanders, leaves, palmettes, rosettes);
- basement finished with decorative stone.

CONSTRUCTIVIST STYLE

MAIN FEATURES:
- environmental friendliness and high energy efficiency of construction and finishing materials;
- extensive use of the latest construction techniques;
- large glazing area;
- wood, stone and ceramic tiles, expanded clay panels, shapely bricks and the latest materials must be of high quality and tactilely pleasing to maximize the comfort of the home;
- wide, uncluttered verandas and terraces (including on flat roofs), panoramic windows and even entire glass walls that create the illusion of merging with nature.

LOFT STYLE

MAIN FEATURES:

- gray or black steel, white roughly plastered and painted concrete, red brick, which make up the trio of basic colors;
- strictness and purity of lines;
- simplicity of geometric forms;
- large area of glazing, panoramic windows;
- minimal external decor.

MODERN STYLE

MAIN FEATURES::

- functionality and convenience of all premises;
- use of new developments and structural solutions;
- up-to-date building materials;
- embodiment of the ideas of multiculturalism and comfort.

MINIMALIST STYLE

MAIN FEATURES:

- storey - such houses consist of one, rarely two floors;
- geometric forms should be simple and laconic: flat roofs, rectangular window and door openings;
- textures are natural but maximally exposed;
- color - the larger the building, the lighter its exterior finish is, as a rule, but facades in noble shades of gray and natural wood finishes are in fashion;
- the lines are fine and neat, as if to emphasize the nature of the homeowner.

POSTMODERNISM

MAIN FEATURES:

- the architecture appears hybrid;
- the facade of buildings is often not connected externally with its interior;
- all types of decoration are used: cladding, decorative masonry, relief, painting, ornament;
- active silhouettes of architectural objects are being revived by abandoning flat roofs and adding gables, mansards and pinnacles of various forms.

PROVANCE STYLE

MAIN FEATURES:

- No traditional porch, sometimes replaced by a couple of low steps, or a paved walkway that simply backs up to the front door;
- the front door is a solid wooden structure on solid steel hinges;
- shutters are an obligatory attribute of window openings. In modern design they can be solid or lightweight, louvered type;
- traditionally Provence houses have a blank wall on the northern side, where the courtyard is organized. The courtyard is always cool in the summer heat, so it is also the location of all the additional outbuildings, including the recreation area;
- An old-fashioned lantern hanging at the entrance is a must for a country dwelling.

AMERICAN STYLE (PRAIRIE STYLE).

MAIN FEATURES:

- buildings are oriented horizontally
- the layout of the building is open;
- the house is finished with natural materials in different combinations; - sharp distinctness of rectangular facades with the help of orthogonal bay windows, projections, square columns;
- the independence of the segments is emphasized by different textures: one is highlighted, for example, with brickwork and the other with concrete;
- most often the roofs are 3 or 4 pitched, with wide overhangs;
- huge panoramic windows;
- Priority colors of prairie architecture: shades of brown, gray, and, less often and in small quantities, white.

ROMANESQUE STYLE

MAIN FEATURES:

- At least 2 stories;
- thick solid walls;
- veranda, garage and other necessary buildings are built close to the house, being its integral parts;
- round segments (apses) and towers with passages;
- stone parapets with an even alternation of high and low masonry.

COLONIAL STYLE

MAIN FEATURES:

- symmetry of facades and layout, central door and evenly spaced windows;
- steep gable or mansard roof;
- use of brick, stone or painted wood;
- central entrance with portico, columns or pediment;
- decorative or functional window shutters;
- Classical elements: cornices, moldings, strict lines;
- fireplaces as a central element of the interior;
- simplicity of form, emphasis on practicality;
- large windows with small glazing in two or three rows.

MEDITERRANEAN STYLE

MAIN FEATURES:

- tile roofing. The roof is most often covered with brown, red or orange tiles;
- open floor plans and minimal barriers between rooms;
- walls are usually finished with white, beige or terracotta plaster;
- arched openings, niches and galleries.
- open, spacious terraces and balconies;
- patios - an internal, paved courtyard, sometimes covered with a canopy and set with pots of vegetation;
- in the case of a villa, there is also a swimming pool surrounded by tubs of greenery or a fountain in the patio.

FAHVERICK STYLE.

MAIN FEATURES:

- the floors project forward one above the other, with a very small increase in living space (the projections rarely reach half a meter);
- high energy efficiency of the house;
- rapid construction of the building;
- long service life of the house;
- relatively low cost of building the house;
- low maintenance costs;
- good maintainability of the half-timbered house.

HIGH-TECH STYLE

MAIN FEATURES

- Use of high technology in the design, construction of engineering buildings and structures;
- emphasis on functionality;
- the use of decorative elements is limited to the maximum extent possible;
- extensive use of metallic silver colors;
- designs are mostly simple, with simple shapes and straight lines predominating. Frequent recourse to elements of constructivism and cubism;
- Decentered lighting, creating the effect of a spacious, well-lit room;
- Highly pragmatic space planning.

STYLE - ECOLOGICAL HI-TECH (ECO-TECH)

MAIN FEATURES:

- such buildings are constructed exclusively with environmentally friendly materials;
- eco-houses should be «smart» - energy-efficient and energy-independent.

SHATO STYLE

MAIN FEATURES:

- overall appearance, stylized to resemble a French château;
- round tower with a conical roof;
- sloping roof, often with a crest;
- tall decorated chimneys;
- arched front entrance;
- many dormer, skylights;
- quadrifolia ornamentation or masquerque;
- terrace with balustrade;
- stone or brick masonry.

ORIENTAL STYLE (ARABIC ARCHITECTURE)

MAIN FEATURES:

- Asymmetrical forms and proportions, gravitation towards luxury and all kinds of decorative elements;
- arches, as well as curved edges of roofs, domes;
- facades are decorated with images and stucco with picturesque ornaments referring to the beliefs of a particular culture;
- mosaics are common.

AR DECO STYLE

MAIN FEATURES:

- cubic forms combined with contrasting horizontal and vertical elements. Downward projections were used to emphasize the main volume;
- strict regularity, bold geometric lines, ethnic geometric patterns, design in halftones, absence of bright colors in the design, at the same time - motley ornaments, luxury, chic, expensive modern materials (ivory, crocodile leather, aluminum, rare woods, silver).

CHALE STYLE

MAIN FEATURES:

- sloping roof;
- natural light;
- two stories;
- natural materials;
- simplicity. In the style of «chalet» there is no place for fancy ornaments, gilded decor, bright colors, which are inherent in the classics or modern interior styles;
- canopies. Most modern solutions have awnings over the porch, balconies, terrace.
- landscape. Chalet houses look favorably surrounded by nature, so they are erected mainly outside the city.

JAPANESE STYLE

MAIN FEATURES:

- laconism, strictness of forms, simplicity, sophistication;
- use of rectangular elements;
- structures with massive roofs and relatively weak walls;
- use of untreated wood;
- fitting the building into the existing landscape;
- absence of motley, multicolors

RIM GROUP concluded an agreement with the Kucherenko Central Research Institute of Building Constructions. Kucherenko. Within the framework of cooperation, products such as beams and transoms are developed, standardized and certified for rapid construction. These solutions provide increased strength of buildings and resistance to seismic activity up to 9 points.

MULTI-FUNCTIONAL RESIDENTIAL COMPLEXES

5-STOREY APARTMENT BUILDING

The 5-storey building of original shape will harmonize with the city infrastructure thanks to its modern design. It is ideal for central areas where hotels, shopping centers, educational institutions and tourist facilities are located. Spacious apartments with up-to-date interior and functional layout make this house an excellent choice for comfortable work and recreation in the city center.

MULTI-FUNCTIONAL RESIDENTIAL COMPLEXES

5-STOREY APARTMENT BUILDING

This house with its understated design is more suitable for a quiet and non-central part of the city. The design of the house distinguishes it from other buildings, but despite this, it fits harmoniously into the urban environment. In this project we did not use complex decorative elements, instead we presented a harmonious project without extravagance and epatage. A practical house with a comfortable and functional layout is an excellent solution for use as an apartment complex in quiet areas of the city.

SCHOOLS

SCHOOL ON 525 PLACES

The educational organization of general type is designed for implementation of primary, basic and secondary general education programs for students from 1st to 11th grade. The school is designed for 525 places and is oriented to normotypical children.

Additionally: the building can be customized at the Customer's request, including a basement, bomb shelter or secret room.

KINDERGARTEN

KINDERGARTEN
80 PLACES

The kindergarten building is a two-story structure with four group cells, as well as halls for music and physical education classes. It includes living quarters that ensure comfortable stay of the pupils and staff.

Additionally: the building configuration can be changed upon the Customer’s request.

HOSPITALS

The designed building of the hospital is a modern three-storey complex that meets the current standards of medical and preventive institutions. It includes an admission department, diagnostic rooms, wards, operating rooms and intensive care units to ensure comfortable and efficient medical care.

Additionally: the configuration and internal filling of the building can be adapted and changed at the Customer’s request depending on the specifics of the institution.

CAMPUSES.

RIM GROUP specialists design student campuses of different storeys - from 1 to 5 floors, including a functional basement level. All buildings meet modern standards and requirements, providing comfortable living, learning and recreation for students in a well-designed and safe environment.

Additionally: the building configuration can be changed at the customer's request.

HOUSES OF CULTURE

The House of Culture, built using capital hybrid technology, is characterized by durability and energy efficiency. Modern construction materials and methods ensure long-term operation, and the hybrid approach combines the best elements of traditional and innovative construction.

Optional: the building's configuration can be customized at the Customer's request.

BUSINESS CENTERS

The business center, built using capital hybrid technology, combines the durability of traditional materials and innovative solutions. The use of modern construction technologies ensures structural stability at optimal energy efficiency and service life costs.

Modern «smart» systems implemented in the building infrastructure ensure that all processes are automated. This includes climate, lighting, security and energy management, which not only improves comfort but also reduces operating costs.

Optional: the building configuration can be customized at the customer’s request

HOTELS

The hotel of high comfort, including five above-ground floors and a functional underground floor, offers its guests all the amenities for a full-fledged vacation. Each element of the project has been thought out to the last detail, providing a high level of service quality and maximum convenience.

Additionally: the building configuration can be changed at the Customer’s request.

HOTELS

The 40-storey hotel, built using capital hybrid technology, combines the reliability of monolithic structures and the speed of modular construction. Energy-efficient systems reduce costs, while smart technology: lighting, heating and air conditioning control via apps or sensors ensure the comfort of staff and guests.

Optional: the building configuration can be customized at the customer’s request.

RAPIDLY DEPLOYABLE MODULAR “SMART” BUILDINGS FROM -2 UP TO 3 FLOORS

RAPIDLY DEPLOYABLE CAPITAL HYBRID «SMART CONSTRUCTION FROM -2 UP TO 40 FLOORS

RESIDENTIAL MODULAR HOUSES UP TO 3 FLOORS

- MODULAR HOUSES FROM 1 UP TO 3 FLOORS (1-15 MODULES)
- SOCIAL FACILITIES

“SMART VILLAGE” PROJECT

“SMART DISTRICT” PROJECT

“SMART CITY” PROJECT

“SMART STATE” PROJECT

PRODUCTION PROCESS

(PRODUCTION AND TECHNICAL DEPARTMENT (PTD), DESIGN INSTITUTE (DI), FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT (CID), WARRANTY AND POST-WARRANTY SERVICE)

COMPLETED PROJECTS PORTFOLIO – 30 YEARS OF EXCELLENCE

SINGLE-FLOOR HOUSE OF 1 MODULE

Model	Area	Sleeping accommodations
Rim House 30	28,80 square meters	1

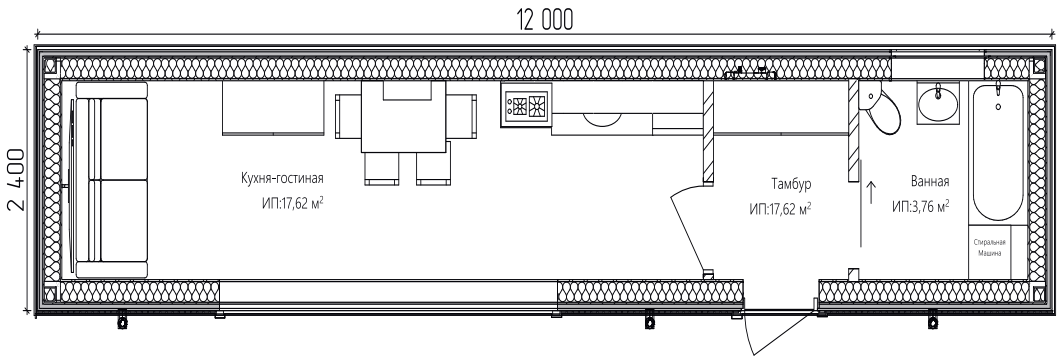
House Description: Tambour, bathroom, kitchen-living room.

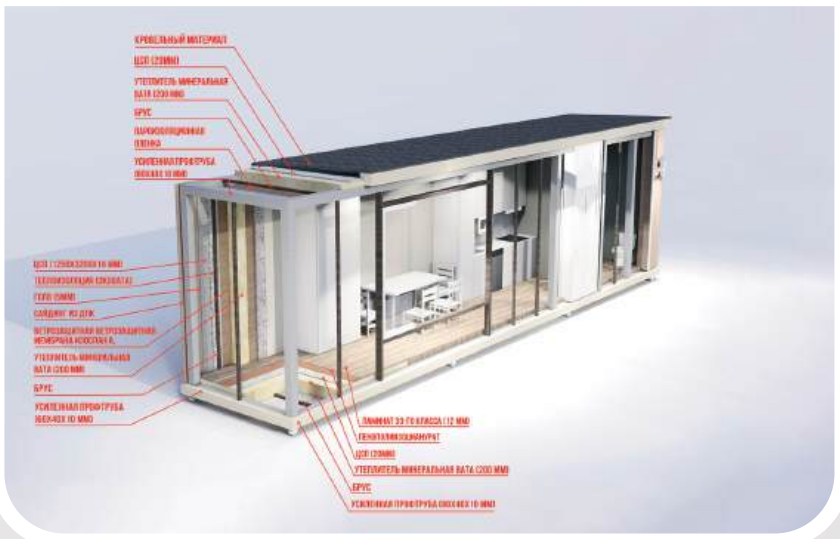
Frame construction: steel pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm)
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: steel entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

SCHEME 1 - MODULAR HOUSE





SINGLE-FLOOR HOUSE OF SINGLE-MODULE WITH A USABLE ROOF

Model	Area	Sleeping accommodations
Rim House 30	28,80 square meters	1

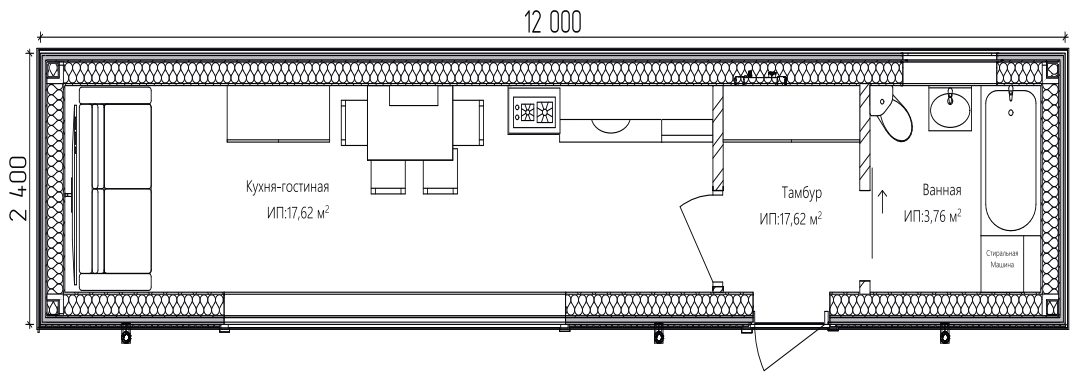
House Description: Tambour, bathroom, kitchen-living room.

Frame construction: metal pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: Metal entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

SCHEME 1 - MODULAR HOUSE



SINGLE-FLOOR HOUSE OF 2 MODULES

Model	Area	Sleeping accommodations
Rim House 60	57,60 square meters.	2

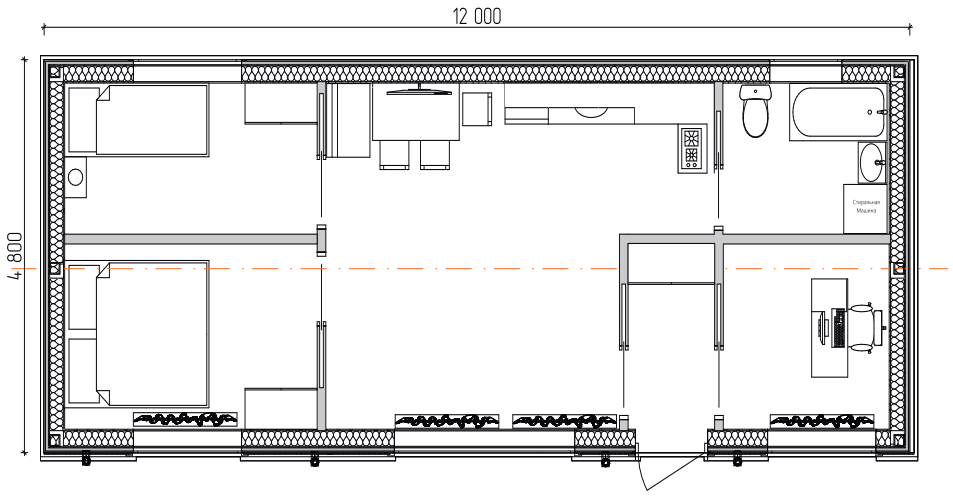
House Description: Tambour, bathroom, kitchen-living room.

Frame construction: steel pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: steel entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

SCHEME 2 - MODULAR HOUSE



SINGLE-FLOOR HOUSE OF 2 MODULES WITH A USABLE ROOF

Model	Area	Sleeping accommodations
Rim House 60	57,60 square meters	2

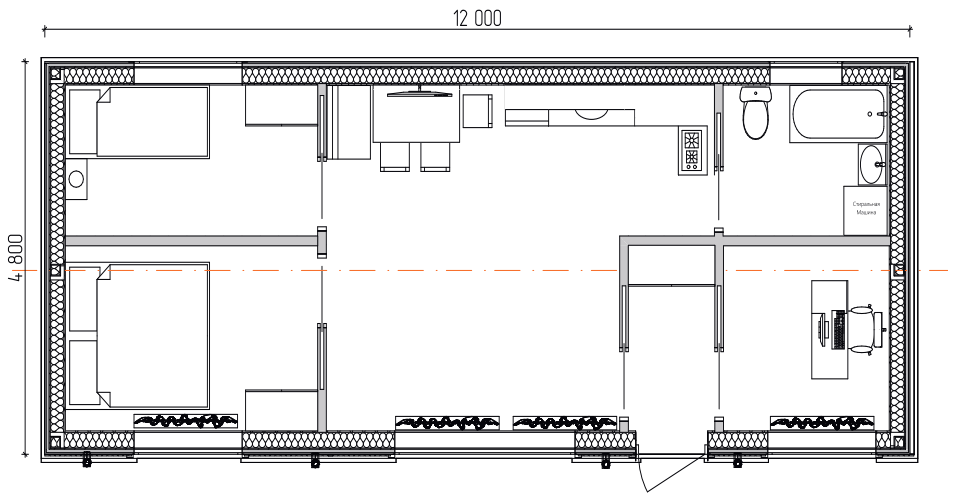
House Description: Tambour, bathroom, kitchen-living room.

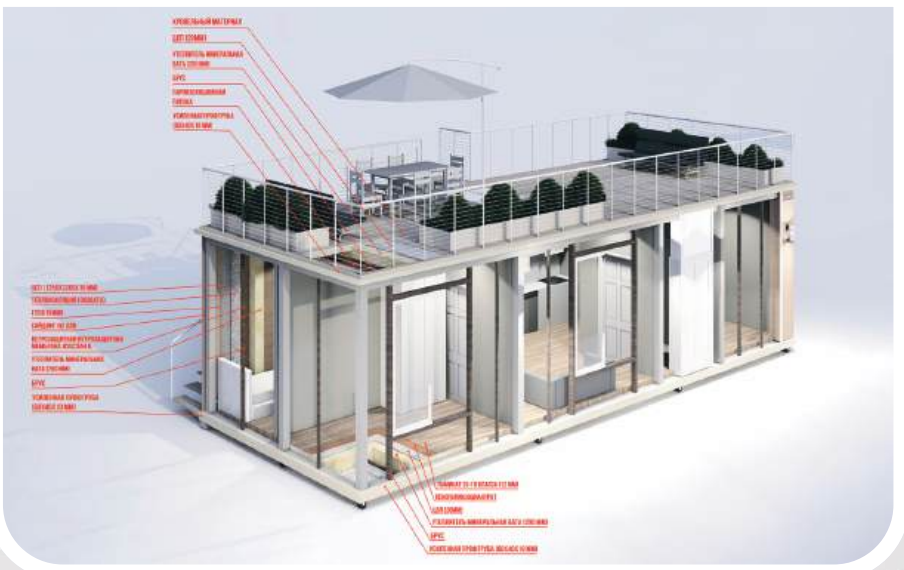
Frame construction: steel pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: steel entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

SCHEME 2 - MODULAR HOUSE





SINGLE-FLOOR HOUSE OF 4 MODULES

Model	Area	Sleeping accommodations
Rim House 120	115,2 square meters	3

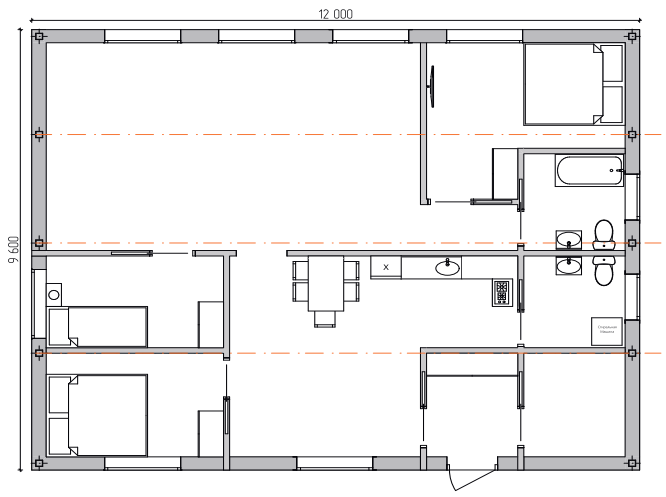
House Description: Tambour, bathroom, kitchen-living room.

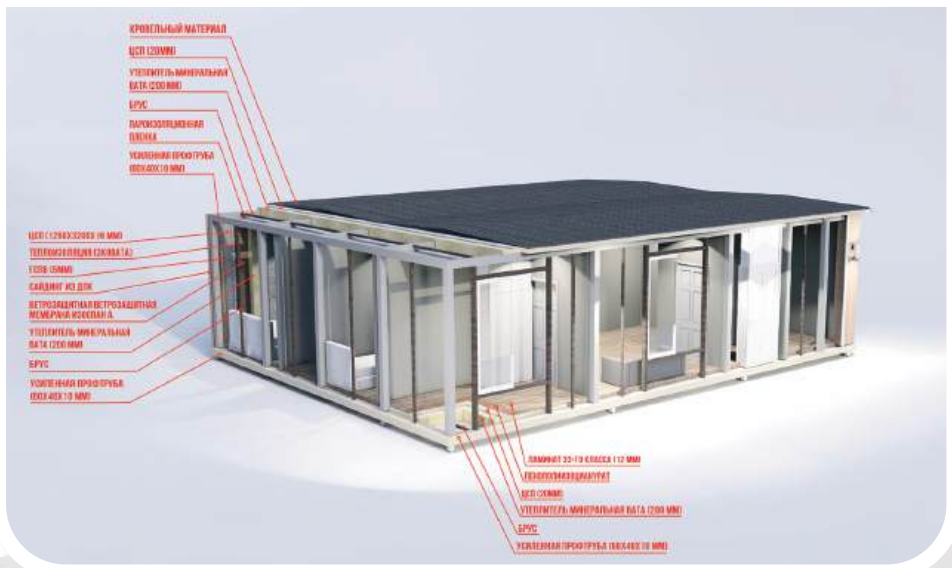
Frame construction: steel pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: steel entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

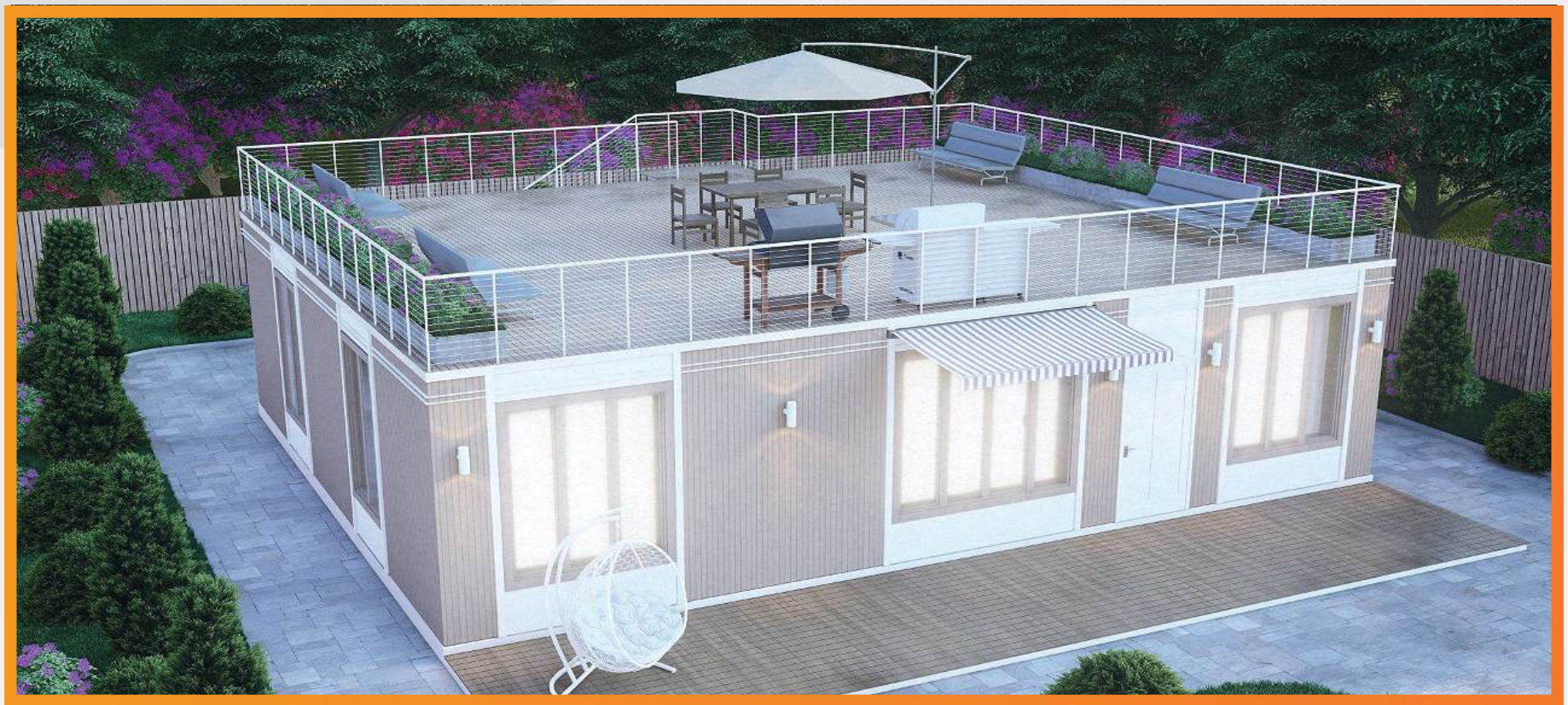
Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

SCHEME 4 - MODULAR HOUSE





SINGLE-FLOOR HOUSE OF 4 MODULES WITH A USABLE ROOF



Rim House 120	115,2 square meters	3
Model	Area	Sleeping accommodations

House Description: Tambour, bathroom, kitchen-living room.

Frame construction: metal pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
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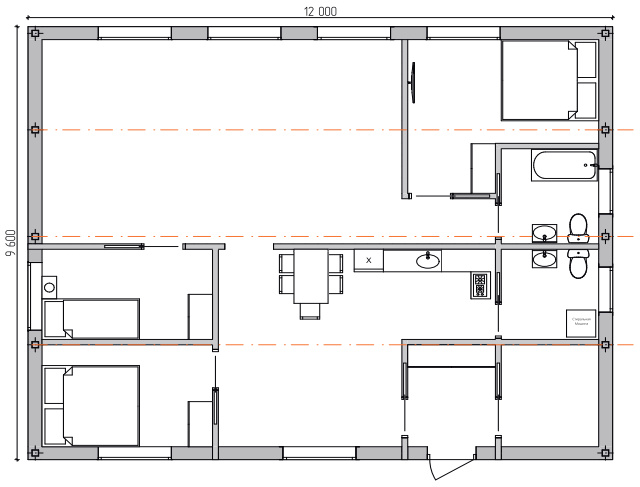
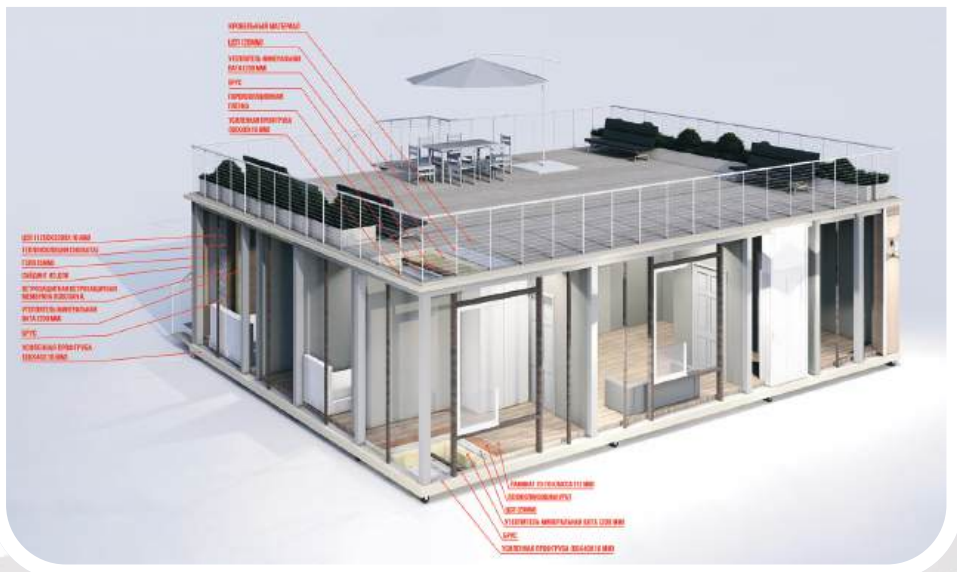
Windows: Profile MF 2-chamber double-glazed window;
Doors: Metal entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

SCHEME 4 - MODULAR HOUSE





SINGLE-FLOOR HOUSE MADE OF 5 MODULES WITH A 6TH MODULE ON THE ROOF

Rim House 180	172,8 square meters	2
Model	Area	Sleeping accommodations

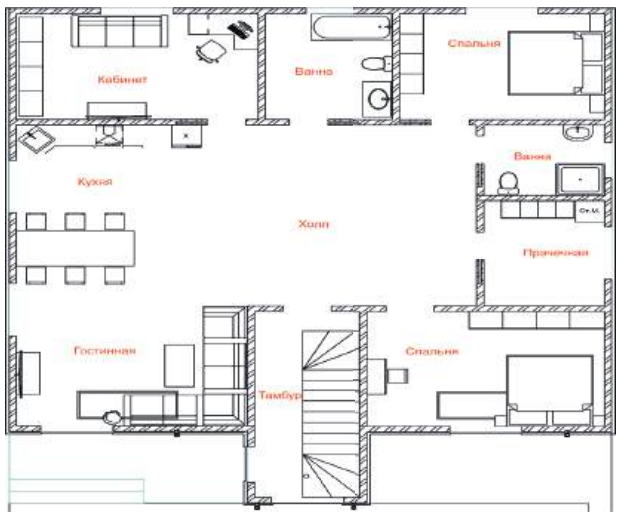
House Description: Tambour, bathroom, kitchen-living room.

Frame construction: steel pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: steel entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

PLAN OF 1 FLOOR



TWO-STOREY HOUSE MADE OF 10 MODULES WITH AN 11TH MODULE ON THE ROOF

Model	Area	Sleeping accommodations
Rim House 320	316,8 square meters	6

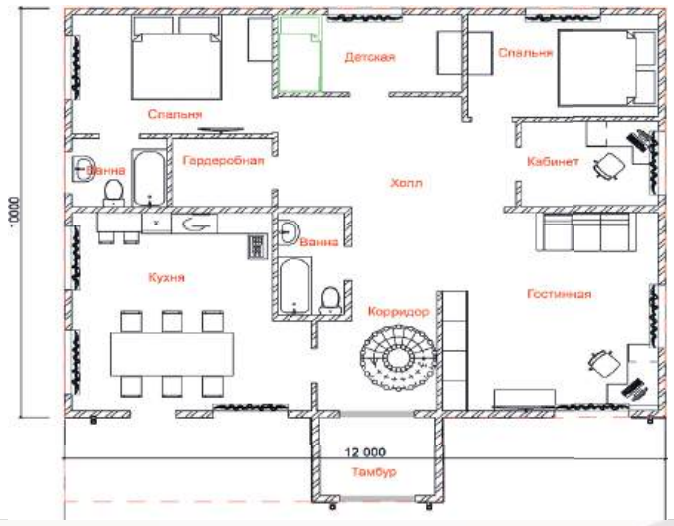
House Description: Tambour, bathroom, kitchen-living room.

Frame construction: steel pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: steel entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

PLAN OF 1 FLOOR



THREE-STOREY HOUSE MADE OF 15 MODULES WITH AN 16TH MODULE ON THE ROOF

Rim House 460	460,8 square meters	8
Model	Area	Sleeping accommodations

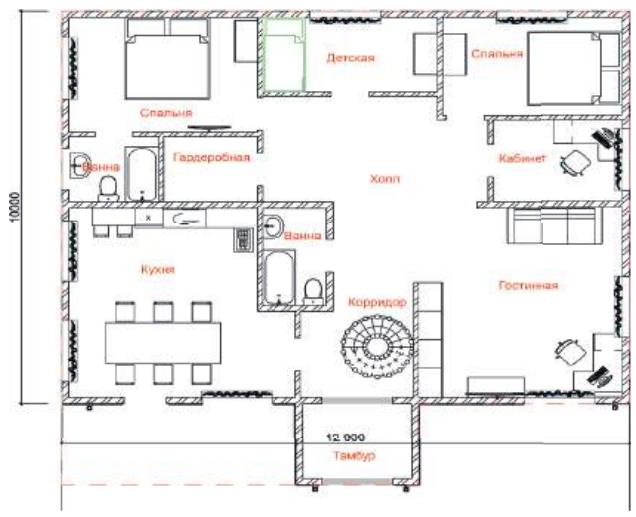
House Description: Tambour, bathroom, kitchen-living room.

Frame construction: steel pipe (140x140x5mm), beam.
Floor construction: reinforced profpipe (60x40x10 mm), timber, polyisocyanurate foam, particle board (20 mm).
Walls: particleboard (1250X3200X16 mm), insulation (ecowool), GSPV (5 mm), WPC siding, windproof membrane isospan A, timber.
Roof: reinforced profpipe (60x40x10 mm), timber, particle board (20 mm), windproof membrane isospan A, roofing material.
Windows: Profile MF 2-chamber double-glazed window;
Doors: steel entrance door;
Interior: According to the customer's technical specifications.
Engineering networks: Full range of works and services on design, equipment selection, installation and maintenance of engineering systems:

- Heating systems
- Water supply systems
- Wastewater systems
- Air conditioning systems
- Ventilation systems
- Fire extinguishing systems
- Control - «Smart House»

Additional information: At the customer's request, the building configuration can be changed. We will develop a project of the house and take a suitable type of foundation. It is possible to equip a basement, bomb shelter, secret room.

PLAN OF 1 FLOOR



MODULAR 1-STOREY SCHOOL

MODULAR 2-STOREY SCHOOL

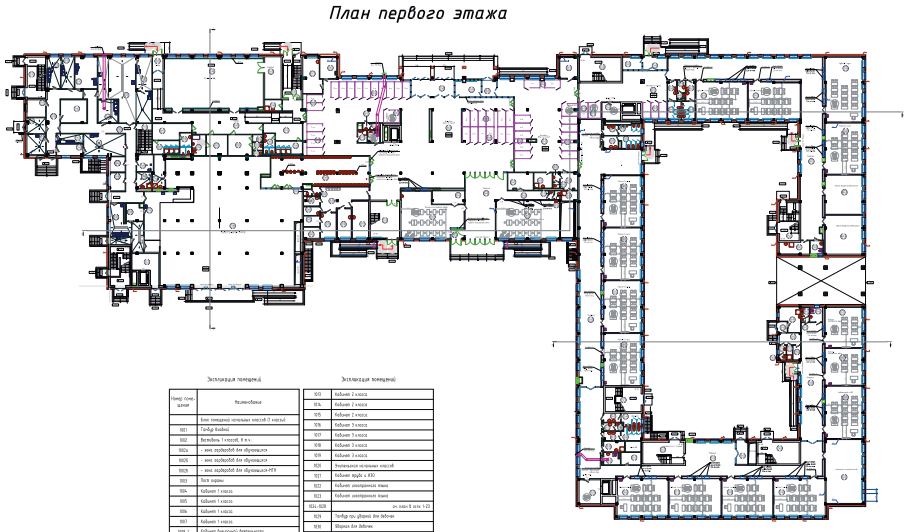
MODULAR 3-STOREY SCHOOL

The projected building of the general educational organization provides implementation of general educational activities in accordance with the levels of education defined by the federal law, is designed for 1100 places..

Size: 7330,0 sq.m.

Additionally: the building configuration can be changed at the customer's request. It is possible to build a basement, bomb shelter, secret room.

План первого этажа



Экспликация помещений

Номер помещения	Наименование
	Блок помещений начальных классов (1 класс)
1021	Гардероб (вобор)
1022	Вестибюль 1 классов, 8 м.к.
1022а	– зона зкаторий для обучающихся
1022б	– зона зкаторий для обучающихся
1022в	– зона зкаторий для обучающихся МГН
1023	Зона охраны
1024	Кабинет 1 класс
1025	Кабинет 1 класс
1026	Кабинет 1 класс
1027	Кабинет 1 класс
1028.1	Кабинет бондарной деятельности
1028.2	Кабинет бондарной деятельности
	Блок помещений начальных классов (2-4 класс)
1029-1031	см. план 8 шкл. 1:25
1032	Кабинет 2 класс

Экспликация помещений

1033	Кабинет 2 класс
1034	Кабинет 2 класс
1035	Кабинет 2 класс
1036	Кабинет 3 класс
1037	Кабинет 3 класс
1038	Кабинет 3 класс
1039	Кабинет 3 класс
1040	Эвакуационная начальных классов
1041	Кабинет труда с ЖКО
1042	Кабинет электронных книг
1043	Кабинет электронных книг
1044-1048	см. план 8 шкл. 1:25
1049	Гардероб при обучении для девочек
1050	Обучение для девочек
1051	Гардероб при обучении для мальчиков
1052	Обучение для мальчиков
1053	Гардероб при обучении для мальчиков
1054	Обучение для мальчиков

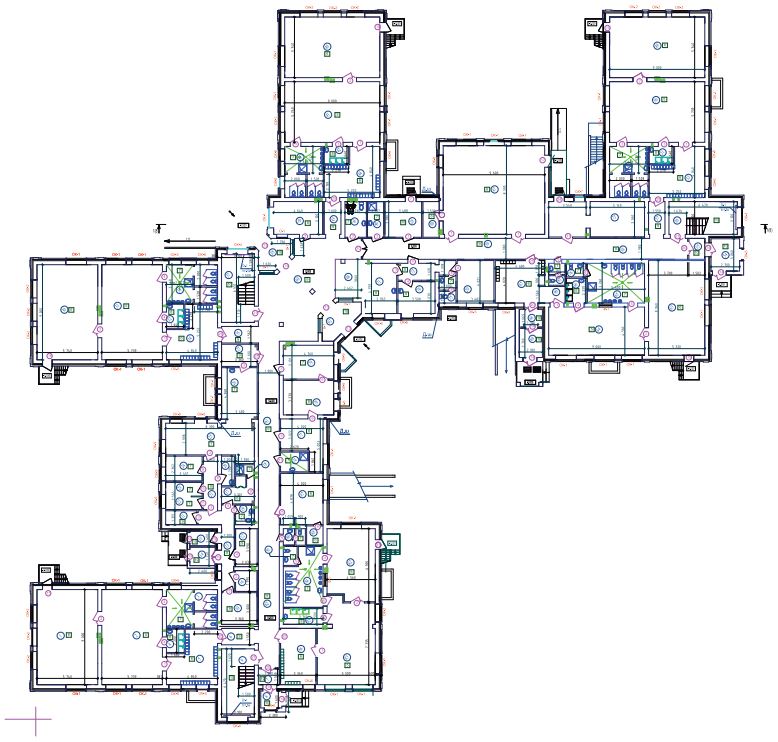
MODULAR KINDERGARTEN 1-STOREY

MODULAR KINDERGARTEN 2-STOREY

Kindergarten for 120 children. The structure includes 6 group cells, each of which can accommodate at least 20 children, a full-fledged food unit, a medical unit, a hall for physical education and music, administrative and economic premises.

Size: 3000 sq.m.

Additional: the building configuration can be changed at the customer's request. It is possible to build a basement, bomb shelter, secret room.



MODULAR KINDERGARTEN WITH 3 FLOORS

MODULAR 1-STOREY HOSPITAL

Hospital (outpatient clinic). The modular outpatient clinic provides doctor’s offices, modern medical equipment, treatment rooms, physiotherapy room. There is a card repository and an archive for recording and storing documents. There is a room for a pharmacy.

Additionally: the building configuration can be changed at the customer’s request. A basement, a bomb shelter and a secret room are possible.

MODULAR 2-STOREY HOSPITAL

3-STOREY MODULAR HOSPITAL

MODULAR 1-STOREY HOSPITAL

The building is divided into «clean» and «dirty» areas, has several entrances and exits for visitors and staff, and special airlocks for receiving patients. The finishing materials used in the construction allow for daily disinfection.

Additional: the building configuration can be changed at the customer's request. A basement, bomb shelter and secret room are possible.

MODULAR 2-STOREY HOSPITAL

MODULAR 3-STOREY HOSPITAL

OBSTETRIC UNITS

FAP is a structural subdivision of a medical and prophylactic institution that provides primary health care.

Optional: the building configuration can be changed according to the customer's wishes. A basement, bomb shelter and secret room are possible.

1-STOREY CULTURAL CENTER

2-STOREY CULTURAL CENTER

3-STOREY CULTURAL CENTER

1-STOREY HOTEL

2-STOREY HOTEL

3-STOREY HOTEL

COMMERCIAL ACTIVITY

GOODS AND SERVICES

RESIDENTIAL MODULAR HOUSES UP TO 3 FLOORS

RAPIDLY DEPLOYABLE CAPITAL HYBRID “SMART” CONSTRUCTION – FROM -2 UP TO 40 FLOORS

“SMART VILLAGE” PROJECT

“SMART DISTRICT” PROJECT

“SMART CITY” PROJECT

“SMART STATE” PROJECT

PRODUCTION PROCESS

(PRODUCTION AND TECHNICAL DEPARTMENT (PTD), DESIGN INSTITUTE (DI), FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT (CID), WARRANTY AND POST-WARRANTY SERVICE)

COMPLETED PROJECTS PORTFOLIO – 30 YEARS OF EXCELLENCE

“SMART VILLAGE” PROJECT

«Smart Village» is a comprehensive initiative to modernize rural life through digital technologies. The goal is to improve the quality of life, economic growth and a comfortable environment. The project includes smart lighting, video surveillance, resource management and energy efficiency systems, as well as digital platforms for access to services.

COMMERCIAL ACTIVITY

GOODS AND SERVICES

RESIDENTIAL MODULAR HOUSES UP TO 3 FLOORS

RAPIDLY DEPLOYABLE CAPITAL HYBRID “SMART” CONSTRUCTION – FROM -2 UP TO 40 FLOORS

“SMART VILLAGE” PROJECT

“SMART DISTRICT” PROJECT

“SMART CITY” PROJECT

“SMART STATE” PROJECT

PRODUCTION PROCESS

(PRODUCTION AND TECHNICAL DEPARTMENT (PTD), DESIGN INSTITUTE (DI), FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT (CID), WARRANTY AND POST-WARRANTY SERVICE)

PORTFOLIO OF COMPLETED PROJECTS OVER 30 YEARS

“SMART DISTRICT” PROJECT

«Smart District» uses digital technologies to improve the urban environment and quality of life. The project includes intelligent infrastructure management systems and digital services for residents.
Data analysis optimizes transportation, reduces pollution and increases resource efficiency. «Smart District» - is a comfortable, safe and environmentally friendly environment that stimulates economic development.

COMMERCIAL ACTIVITY

GOODS AND SERVICES

RESIDENTIAL MODULAR HOUSES UP TO 3 FLOORS

RAPIDLY DEPLOYABLE CAPITAL HYBRID “SMART” CONSTRUCTION – FROM -2 UP TO 40 FLOORS

“SMART VILLAGE” PROJECT

“SMART DISTRICT” PROJECT

“SMART CITY” PROJECT

“SMART STATE” PROJECT

PRODUCTION PROCESS
(PRODUCTION AND TECHNICAL DEPARTMENT (PTD), DESIGN INSTITUTE (DI), FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT (CID), WARRANTY AND POST-WARRANTY SERVICE)

PORTFOLIO OF COMPLETED PROJECTS OVER 30 YEARS

“SMART CITY” PROJECT

The Smart City project is a large-scale initiative to transform the urban environment using advanced technologies. The goal is to improve the quality of life of citizens, optimize urban infrastructure and sustainable development. Intelligent management systems for transportation, energy consumption, security and ecology are being introduced. Residents get access to digital services: e-government, online education, telemedicine.

COMMERCIAL ACTIVITY

GOODS AND SERVICES

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PORTFOLIO OF COMPLETED PROJECTS OVER 30 YEARS

“SMART STATE” PROJECT

The Smart State project is a strategy for modernizing public administration using digital technologies. The goal is to improve the efficiency of public services, transparency of government work and interaction with citizens. Key elements: digitalization of public services, creation of unified digital platforms, development of e-government, introduction of big data analytics for informed decision-making.

PRODUCTION PROCESS

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PRODUCTION PROCESS

- PRODUCTION AND TECHNICAL DEPARTMENT (PTD)
- DESIGN INSTITUTE (DI)
- FACTORY
- CONSTRUCTION AND INSTALLATION DEPARTMENT (CID)
- WARRANTY AND POST-WARRANTY SERVICE

PORTFOLIO OF COMPLETED PROJECTS OVER 30 YEARS

PRODUCTION PROCESS

CONTRACT IMPLEMENTATION SCHEME

ROADMAP FOR ACHIEVING THE GOAL THROUGH TASK SOLUTIONS IN THE BUSINESS PROCESS "FROM INCOMING REQUEST TO CONTRACT IMPLEMENTATION»

PTD	DI	FACTORY	CID	SERVICE
1. COLLECTION OF INITIAL PERMITS AND DOCUMENTATION 2. DEVELOPMENT OF IMPLEMENTATION SCHEDULES AND WORK PRODUCTION PLAN 3. MARKET ANALYSIS, PROCUREMENT OF MATERIALS ACCORDING TO SPECIFICATIONS, COST ESTIMATION OF THE PROJECT 4. PREPARATION OF THE DOCUMENT PACKAGE FOR PROJECT CLOSURE	1. CONDUCTING ENGINEERING SURVEYS 2. DEVELOPMENT AND APPROVAL OF DESIGN AND ESTIMATE DOCUMENTATION 3. PREPARATION OF PROJECT IMPLEMENTATION DOCUMENTATION (DRAWINGS, DETAILED METAL STRUCTURE DRAWINGS, CUTTING LAYOUT)	1. MANUFACTURING OF STRUCTURES AND ELEMENTS ACCORDING TO THE PROJECT 2. QUALITY INSPECTION AND ASSEMBLY OF STRUCTURES 3. TRANSFER OF THE MANUFACTURED PRODUCTS TO THE WAREHOUSE	1. SITE PREPARATION FOR INSTALLATION (CONSTRUCTION) 2. EXECUTION OF CONSTRUCTION AND INSTALLATION WORKS 3. COMMISSIONING OF THE FACILITY AND HANDOVER TO THE CLIENT 4. WARRANTY AND POST-WARRANTY SERVICE	1. WARRANTY SERVICE 2. POST-WARRANTY TECHNICAL MAINTENANCE 3. TRAINING AND INSTRUCTION OF THE CLIENT'S PERSONNEL

1. PRE-CONTRACT WORK

TRADE DEPARTMENT – CONTRACT SERVICE: INCOMING REQUEST FOR A COMMERCIAL OFFER (TCO), PROCESSED AFTER VERIFYING THE CUSTOMER'S RELIABILITY.

TECHNICAL JUSTIFICATION (DESIGN AND TECHNOLOGY DEPARTMENT, DESIGN INSTITUTE, FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT)

FEASIBILITY ASSESSMENT

ECONOMIC JUSTIFICATION (PRELIMINARY ECONOMIC ASSESSMENT)

2. CONTRACT EXECUTION PREPARATION

SDO
COMMERCIAL OFFER (CO)
(COST PRICE, SCHEDULE, ANALYSIS OF 3 COMPETITOR PRICES, MARGIN)

LEGAL DEPARTMENT
CONTRACT

ACCOUNTING
CUSTOMER ORDER
ADVANCE PAYMENT

PRODUCTION AND TECHNICAL DEPARTMENT (PTD) IMPLEMENTATION SCHEDULE
CONTRACT FULFILLMENT ORDER (CFO)
CONTRACT PREPARATION AND FULFILLMENT ORDER (CPFO)

DESIGN INSTITUTE (DI)
PROJECT
SPECIFICATION

PTD – PRODUCTION AND TECHNICAL DEPARTMENT
PPG – PROJECT PROCUREMENT GROUP
PROCUREMENT
SPECIFICATION

PTO-MTO
PURCHASE OF MATERIALS
(PLANT, SMU)

PTD-MTS – MATERIALS AND TECHNICAL SUPPORT DEPARTMENT
MATERIAL PROCUREMENT
(FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT)

WAREHOUSE – GOODS RECEIPT – PRODUCTION TRANSFER

PRODUCTION SCHEDULE
(FACTORY, CONSTRUCTION AND INSTALLATION DEPARTMENT)
PTD-PPG – PRODUCTION AND TECHNICAL DEPARTMENT – PROJECT PROCUREMENT GROUP

3. CONTRACT IMPLEMENTATION

FACTORY
SECTION 1: STEEL PROCESSING
AREA 1: STRUCTURAL STEEL PROCESSING
AREA 2: SHEET STEEL PROCESSING

FACTORY
SECTION 2
ASSEMBLY, WELDING, BEVELING, PRESSURE TESTING

FACTORY
SECTION 3.
PAINTING, CLADDING, MASONRY, ELECTRICAL WORK, INSTRUMENTATION AND CONTROL, MARKING, PACKAGING, TRANSFER TO WAREHOUSE

PTD
PERMITTING, TECHNICAL, AND AS-BUILT DOCUMENTATION

CONSTRUCTION SCHEDULE
CONSTRUCTION AND INSTALLATION DEPARTMENT (CID)
PROJECT
MATERIALS AND EQUIPMENT

FINISHED PRODUCTS STORAGE

CONSTRUCTION AND INSTALLATION DEPARTMENT (CID)
SECTION 1
GENERAL CONSTRUCTION DIRECTION

CONSTRUCTION AND INSTALLATION DEPARTMENT (CID)
SECTION 2
ENGINEERING SOLUTIONS

CONSTRUCTION AND INSTALLATION DEPARTMENT (CID)
SECTION 3
INTERIOR WORKS

CONSTRUCTION AND INSTALLATION DEPARTMENT (CID)
SECTION 4
SMART HOME MANAGEMENT

GUARANTEED POWER SUPPLY SYSTEM (GESS)
ELECTRICAL INSTALLATION, PRE-COMMISSIONING AND COMMISSIONING

CONSTRUCTION AND AUTHOR SUPERVISION

PTD-C&H – COMMISSIONING AND HANDOVER
FACILITY COMMISSIONING, FINAL SETTLEMENT WITH THE CLIENT

PTD-CID
AS-BUILT AND TECHNICAL DOCUMENTATION

PTD
WARRANTY SERVICE

CID
POST-WARRANTY SERVICE

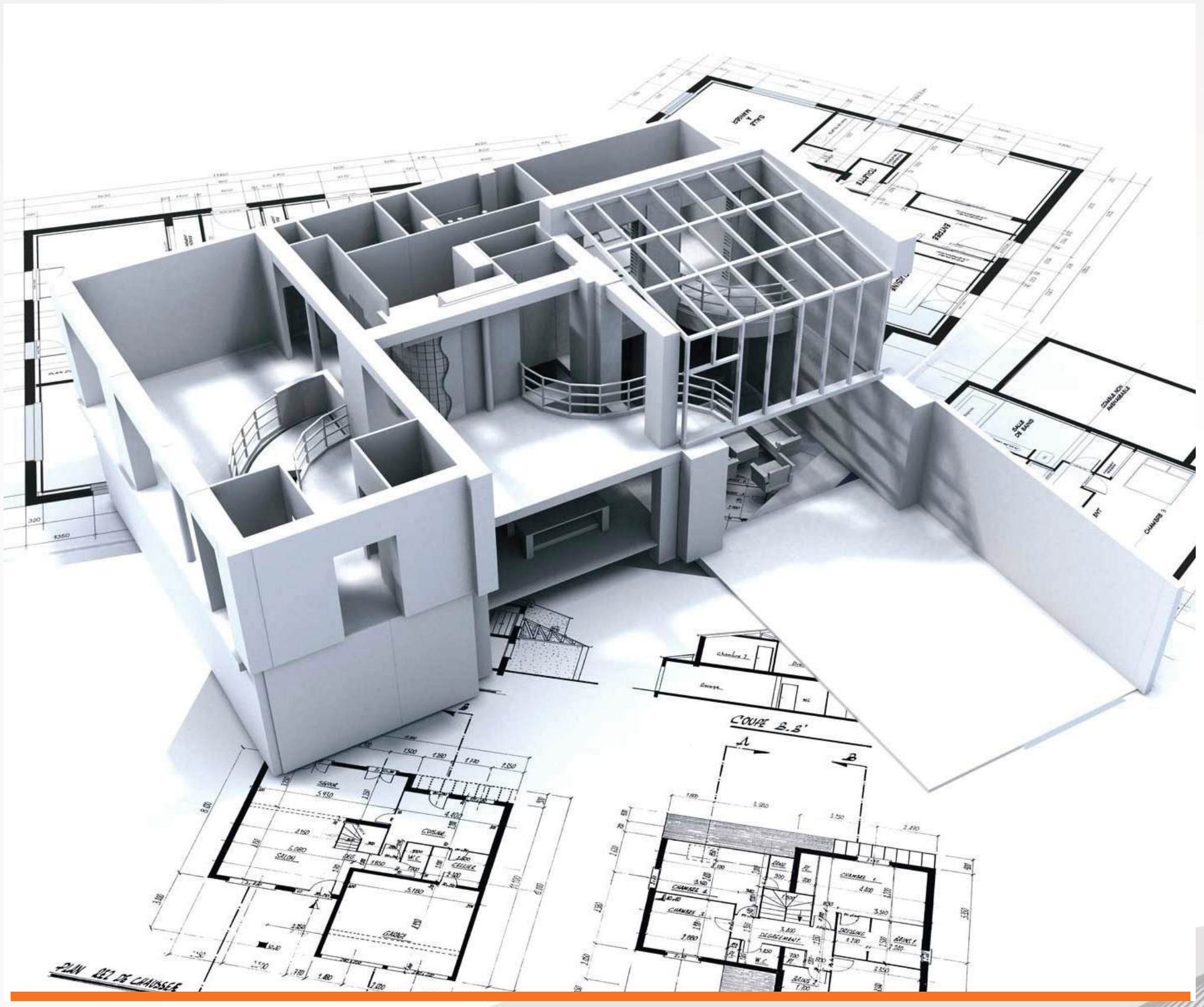
RIM GROUP
TRADE-PRODUCTION-INVESTMENT GROUP OF COMPANIES

FACILITY IS READY AND COMMISSIONED COMMISSIONED

(PTD)

PRODUCTION AND TECHNICAL DEPARTMENT

1. COLLECTS INITIAL PERMIT DOCUMENTATION
2. FORMS SCHEDULES AND SPECIFICATIONS
3. CALCULATES THE COST OF THE PROJECT
4. PREPARES THE PROJECT FOR PRODUCTION WORK
5. PREPARES PERMIT DOCUMENTATION:
   - TECHNICAL DOCUMENTATION
   - AS-BUILT DOCUMENTATION



(DI)
DESIGN INSTITUTE

1. CONDUCTS ENGINEERING RESEARCH
2. DEVELOPS DESIGN AND ESTIMATE DOCUMENTATION
3. PREPARES ALL REQUIRED DOCUMENTATION FOR STRUCTURAL MANUFACTURING, INCLUDING GENERAL DRAWINGS, FABRICATION DRAWINGS, AND CUTTING LAYOUTS.

RAPIDLY DEPLOYABLE MODULAR “SMART” CONSTRUCTION UP TO 3 FLOORS

ARCHITECTURAL OPTIONS FROM DESIGN INSTITUTE

The high-tech trade and exhibition complex is a modern space combining advanced technologies and innovative design. Glass facades, steel structures and dynamic lighting create an effect of lightness and futurism.
Inside there are shopping galleries, exhibition halls and lounge areas with smart navigation systems, making the visit comfortable and functional.

ARCHITECTURAL OPTIONS FROM DESIGN INSTITUTE

An operable roof is as much about aesthetics as it is about functionality.
It reduces overheating of the building, improves noise insulation and provides additional space for recreation or work areas.

ARCHITECTURAL OPTIONS FROM DESIGN INSTITUTE

The modular office building project offers flexibility in layout and quick erection. Prefabricated modules allow the space to be customized to meet the needs of the business, while high-tech materials ensure energy efficiency and durability.
Shortened construction time, environmentally friendly solutions and the possibility of integrating green areas make the building modern and comfortable.

ARCHITECTURAL OPTIONS FROM DESIGN INSTITUTE

This eco-hitech office building combines technology and environmental friendliness.
The main capital building is complemented by a modular annex that provides flexibility in layout.
An operable roof with green areas reduces heat loss and improves the microclimate.
Panoramic glazing, energy-efficient materials and recovery systems make the building comfortable and environmentally friendly.

FACTORY

«Teplostroyproyekt-S» is the company that carries out all production processes of the Group of Companies.
It occupies 70,000 square meters of production space.
More than 100 units of advanced equipment are involved in the manufacturing of products: steel cleaning shotguns, band saws, plasma cutting machines, rolling machines, automated welding robots. The company provides full engineering support of projects - from the application acceptance stage to post-warranty service of the realized products.

FACTORY.
EQUIPMENT USED AT THE FACTORY FOR PRODUCT MANUFACTURING.

QHT6910B SHOT BLASTING MACHINE

It is used for cleaning metal from rust and corrosion.

KESMAK KMY DG450 BAND SAW MACHINE.

Capacity at 90°:
- Round: 450 mm - Square: 450 x 450 mm - Plate: 450 x 680 mm
Capacity at 60°: - Round: 450 mm - Square: 450 x 450 mm - Plate: 450 x 570 mm
Capacity at 45°:
- Round: 450 mm - Square: 420 x 420 mm - Plate: 350 x 480 mm
Capacity at 30°: - Round: 350 mm - Square: 330 x 330 mm
- Plate: 240 x 450 mm

TWO BAND SAW MACHINES IRON-CUT S610R

Cutting parameters:
Round: 450 mm,
Rectangle: 610x420 mm.

BAND SAW MACHINE IRON-CUT CH5085

These machines are designed for cutting large workpieces with a round cross-section up to 500 mm and square cross-section up to 850x500 mm.

BAND SAW IRON-CUT S440R

Cutting capacity of the processed part At 90°: Round: 480 mm
Square: 480 x 480 mm / Square: 650 x 480 mm At 45°: Round: 450 mm
Square: 440 x 440 mm / Square: 510 x 300 mm At -45°: Round: 420 mm
Square: 400 x 400 mm / Square: 440 x 300 mm At 60°: Round: 350 mm
Square: 330 x 330 mm / Square: 290 x 480 mm At -60°:
Round: 340 mm
Square: 330 x 330 mm / Square: 280 x 480 mm

ONE PLASMA CUTTING MACHINE HPR260

With cutting power for sheet metal up to 60 mm thick.

TWO PLASMA CUTTING MACHINES WITH FRAMES 12X3M HPR260XD.

With a cutting capacity for sheet metal up to 60 mm.

PIPE BENDING MACHINE

With a bending capacity for pipes from ø42 mm to ø108 mm.

SMALL ROLLING MACHINE ASM-S-170-20

With a rolling capacity for sheet metal up to 6 mm thick and 2100 mm wide.

MEDIUM ROLLING MACHINE AKYAPAK AHS 30-10

With a rolling capacity for sheet metal from 4 mm to 12 mm thick and up to 3100 mm wide.

FACTORY.
EQUIPMENT USED AT THE FACTORY FOR PRODUCT MANUFACTURING.

LARGE ROLLING MACHINE 4R HSS 30-400 SAHINLER

With a cutting capacity for sheet metal up to 6 mm thick and up to 3100 mm wide.

SMALL GUILLOTINE HGL 3100X6

With a cutting capacity for sheet metal up to 6 mm thick and up to 3100 mm wide.

LARGE GUILLOTINE MGH 3100X13

With a cutting capacity for sheet metal up to 13 mm thick and up to 3100 mm wide.

PRESS BRAKE APH 3106X120

With a cutting capacity for sheet metal up to 13 mm thick and up to 3100 mm wide.

OVER 70 MIG 5000 SEMI-AUTOMATIC WELDING MACHINES (SVAROG)

Industrial welding inverter designed for connection to a three-phase 380V power supply, allowing operation with a welding current range from 20 to 500 amps.

WELDING TRACTOR (AUTOMATIC)

A self-propelled device that moves along the weld seam on a workpiece or guide rail, feeding electrode wire and flux into the welding zone.

WELDING ROBOT

A robotic system designed for welding large steel components with thicknesses up to 90 mm.

FACTORY. PRODUCTION STAGES

STAGE 1

STEEL CUTTING

Profile steel is cut on a band saw of Chinese production IRON-CUT S-610R series, and sheet steel is cut on a guillotine of Turkish production.
Operations are carried out in the Sections

PLASMA CUTTING MACHINE WITH DIMENSIONS 6X3M HPR260.

PLASMA CUTTING MACHINE 12X3M HPR260XD.

FACTORY. PRODUCTION STAGES

STAGE 2

FRAME ASSEMBLY AND PAINTING

The frame of the house is made of channel No. 14 and No. 16, angle 140 x 10 and profiled pipe of several sizes. The house frame is assembled in the south wing of Section No. 1. Then it is transported to Section No. 4 and the house frame is coated with paint and varnish materials. Then it is moved to Section No. 3, where further assembly of the house is carried out.

FACTORY. PRODUCTION STAGES

STAGE 3

HOUSE COVERING

The outer fence is made of 10mm thick Green Board fiberboard, and the inner fence is made of 10mm thick gypsum particle boards (GSP). The boards are fixed to wooden posts 190mm wide and 50mm thick. KNAUF mineral wool is used as thermal insulation. The facade of the house is covered with moisture-resistant planken made of thermo-modified wood.

BUILDING PROCESS

DELIVERY

STAGE 4

MODULE TRANSPORTATION TO PREPARED AREA

Delivery on site is carried out by standard freight transport without additional costs,
because during manufacturing we immediately plan solutions that will allow us to deliver the
modules to the installation site.

CONSTRUCTION AND ASSEMBLY MANAGEMENT. STAGES OF PRODUCTION

STAGE 5

INSTALLATION OF A MODULAR HOUSE

The installation of a modular house takes up to 24 hours, including connection of all engineering systems and inspection.
Everything is carried out with a minimum set of equipment and installers.
After installation, the house is completely ready for living.
Materials and solutions allow it to operate as a full-fledged capital structure.
Service life up to 50 years, earthquake resistance up to 9 points.
The solutions that we apply allow us to make the house not only autonomous, but also «smart» through the use of remote control.

CONSTRUCTION AND ASSEMBLY MANAGEMENT. STAGES OF PRODUCTION

INSTALLATION OF A MODULAR HOUSE

CONSTRUCTION AND ASSEMBLY MANAGEMENT. STAGES OF PRODUCTION

THE FACILITY IS READY AND COMMISSIONED

RIM SERVICE COMPANY

CENTRAL SYSTEM CONNECTION

In the case of a single-module construction, 99% of the work takes place at the factory; two or more modules are done directly on site.
Electricity supply: installation of switchboard, connection to power lines, etc.

COMMISSIONING WORKS

System testing, troubleshooting, customization of automation («smart home», sensors).

WARRANTY AND POST-WARRANTY SERVICE

LIST OF SERVICES PROVIDED BY THE SERVICE DEPARTMENT:

- Equipment repair during the warranty period
- Equipment repair after the warranty period
- Maintenance services
- Supervision

THE SERVICE COMPANY “RIM SERVICE” ENSURES THE QUALIFIED EXECUTION OF THE FOLLOWING TASKS:

- Scheduled maintenance and servicing of operating equipment
- Repair of faulty equipment, including dismantling by our specialists
- Repair of specialized or custom equipment

PORTFOLIO OF COMPLETED PROJECTS OVER 30 YEARS

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PORTFOLIO OF COMPLETED PROJECTS OVER 30 YEARS

1 SMART CONSTRUCTION:

1.1. RAPIDLY DEPLOYABLE MODULAR “SMART” BUILDINGS FROM -2 UP TO 3 FLOORS
1.2. RAPIDLY DEPLOYABLE CAPITAL HYBRID “SMART” CONSTRUCTION – FROM -2 UP TO 40 FLOORS
1.3. “SMART VILLAGE” PROJECT
1.4. “SMART DISTRICT” PROJECT
1.5. “SMART CITY” PROJECT
1.6. “SMART STATE” PROJECT

CARBON TEST SITE CAMPUS OF 5 MODULES AND 6 ROOFTOP MODULES

GROZNY, CHECHEN REPUBLIC

COMPLETED PROJECTS

FACILITY	Location
State Budgetary Institution «Nikolaev Central District Hospital	Put Ilyicha, Nikolaevsky District, Volgograd Oblast
State Budgetary Institution «Kalachevskaya Central District Hospital	Khutora Logovsky of Kalachevsky District, Volgograd Oblast
State Health Care Institution «Zhirnovsk Central District Hospital»	Rp. Medveditsky, Zhirnovsky District, Volgograd Oblast
Feldsher-midwifery stations, 6 fapas	Chechen Republic
Rapidly Deployable modular canteen for schools, 45 and 25 seats	Astrakhan, Enotayevskiy district

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