



TRADE-PRODUCTION-INVESTMENT
GROUP OF COMPANIES

TURNKEY PROJECT. HOME PACKAGE ONLINE STORE



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
Technologies

BUILDING THE FUTURE!



INDUSTRIAL AND CIVIL CONSTRUCTION

SMART
CONSTRUCTION

1

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

1.1.

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

1.2.

"SMART VILLAGE" PROJECT

1.3.

"SMART DISTRICT" PROJECT

1.4.

"SMART CITY" PROJECT

1.5.

"SMART STATE" PROJECT

1.6.

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

2

STEEL STRUCTURE
FABRICATION
& BRIDGE CONSTRUCTION

3

READY-MADE BUSINESS
SOLUTIONS

4

INDUSTRIAL FACILITIES

4.1.

CIVIL FACILITIES

4.2.

AGRICULTURAL FACILITIES

4.3.

RENOVATION, RECONSTRUCTION, AND
MODERNIZATION - TRANSITION FROM
LEGACY SYSTEMS TO "SMART"

4.4.

5 TURNKEY PROJECT
HOME PACKAGE
ONLINE STORE

TOP 99 COMMERCIAL
PRODUCTS

6

TOP 99 RETAIL
PRODUCTS

7

TOP 99 SMART PRODUCTS
AND TECHNOLOGIES

8

POST-WARRANTY
SUPPORT

12

WARRANTY SUPPORT

11

SERVICES

10

SUPPLIER ALLIANCE

9

INVESTMENT ATTRACTION

COMMERCIAL ACTIVITY
GOODS AND SERVICES

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

INNOVATION ACTIVITY



GENERAL CONSTRUCTION



ENGINEERING

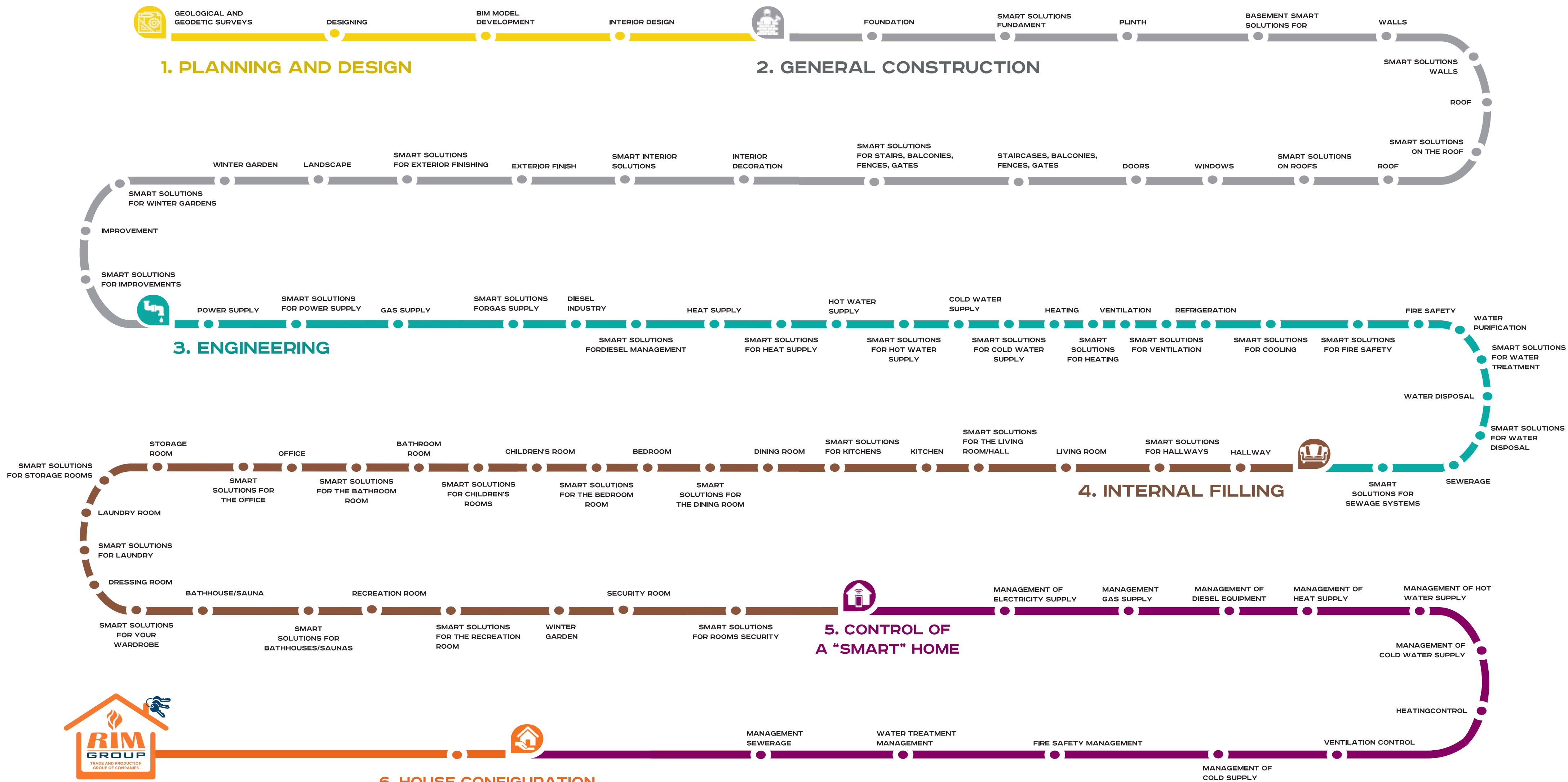


INTERNAL FILLING



SMART MANAGEMENT
HOUSE AND PROJECT

A ROADMAP FOR A HOUSE PROJECT COMPLETION



THE FACILITY IS READY
AND HAS BEEN
PUT INTO OPERATION.

6. HOUSE CONFIGURATION,
PROJECT CONFIGURATION



PLANNING AND DESIGN

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GENERAL CONSTRUCTION

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ENGINEERING

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SMART HOME MANAGEMENT AND PROJECT MANAGEMENT

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HOUSE EQUIPMENT, PROJECT EQUIPMENT

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PLANNING AND DESIGN

GEOLOGICAL AND GEODETIC SURVEYS, DESIGN, DEVELOPMENT OF THE VLM-MODEL, INTERIOR DESIGN.

GEOLOGICAL AND GEODESIC SURVEYS

The result of engineering and surveying is a detailed plan (survey) with the current terrain relief, plot boundaries, and all existing buildings marked. Engineering and geological surveys allow you to assess the possibility of constructing a building, taking into account the characteristics of the soil. A special set of works is aimed at studying the physical composition of the soil and assessing the stability of the site to determine the type of foundation. The RIM GROUP team of engineers will help you resolve any issues related to conducting surveys: they will advise you on the composition and stages of each type of engineering survey, prepare accompanying documentation, and organize state expert review.



DESIGNING

The design of your future home is carried out by a team of specialists from the RIMG GROUP architecture and design bureau.

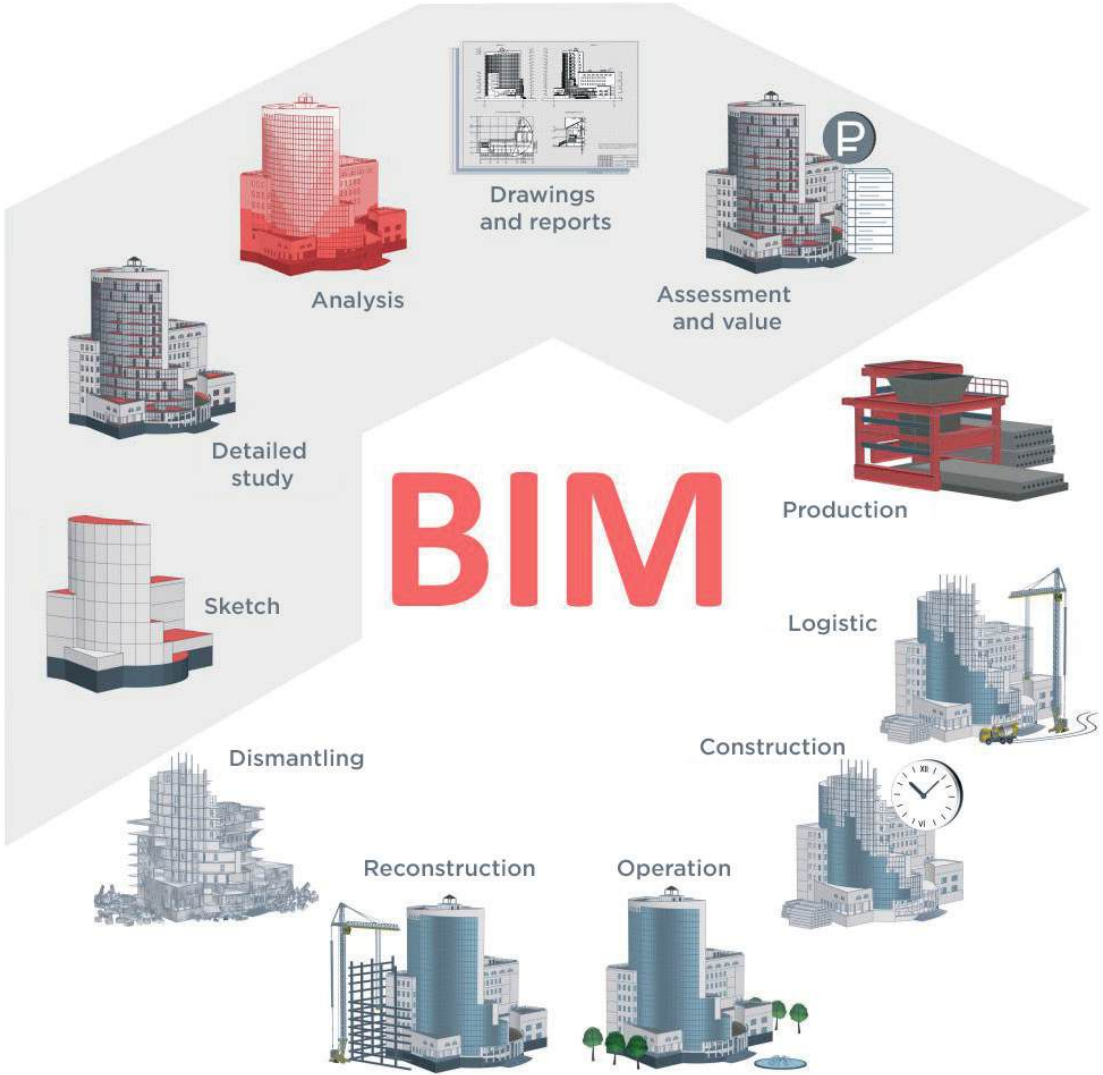


Explanation		
Nr	Name	Sq.
01	Bedroom	34
02	Hall	139
03	Kitchen	45
04	Bunker	82
05	Swimming pool	21
06	Bathhouse	9
07	Elevator	4
08	Gym	69
09	Shower	9
10	Utility room	13
11	Swimming pool	21



BIM MODEL DEVELOPMENT

TECHNOLOGY - “BIM” IS BASED ON A THREE-DIMENSIONAL BUILDING MODEL. “BIM” - THE MODEL CONSISTS OF VIRTUAL ANALOGS OF REAL BUILDING ELEMENTS WITH LOGICAL AND PHYSICAL PROPERTIES.



RIMMARKET IN 4 DIRECTIONS

1	GENERAL CONSTRUCTION DIRECTION
<ul style="list-style-type: none">• FOUNDATION• BASEMENT FLOOR• WALLS• ROOF• ROOF• WINDOWS• DOORS• STAIRS, BALCONIES, FENCES, GATES• INTERIOR FINISHING• EXTERIOR FINISHING• LANDSCAPING• WINTER GARDEN• IMPROVEMENTS	

2	ENGINEERING
<ul style="list-style-type: none">• ELECTRICAL SUPPLY• GAS SUPPLY• DIESEL MANAGEMENT• HEAT SUPPLY• HOT WATER SUPPLY• COLD WATER SUPPLY• HEATING• VENTILATION• COOLING• FIRE SAFETY• WATER TREATMEN• SEWAGE DISPOSAL• SEWERAGE	

3	INTERNAL LAYOUT
<ul style="list-style-type: none">• ENTRANCE HALL• LIVING ROOM• KITCHEN• DINING ROOM• BEDROOM• CHILDREN'S ROOM• BATHROOM• STUDY• STORAGE ROOM• LAUNDRY ROOM• WALK-IN WARDROBE• BATH/SAUNA• RECREATION ROOM• WINTER GARDEN• SECURITY ROOM	

4	HOME MANAGEMENT "SMART"
<ul style="list-style-type: none">• POWER SUPPLY MANAGEMENT• GAS SUPPLY MANAGEMENT• DIESEL FUEL MANAGEMENT• HEAT SUPPLY MANAGEMENT• HOT WATER SUPPLY MANAGEMENT• VENTILATION MANAGEMENT• REFRIGERATION MANAGEMENT• COLD WATER SUPPLY MANAGEMENT• HEATING MANAGEMENT• VENTILATION MANAGEMENT• REFRIGERATION MANAGEMENT• FIRE SAFETY MANAGEMENT• WATER TREATMENT MANAGEMENT• SEWERAGE MANAGEMENT	



PLANNING AND DESIGN

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ENGINEERING

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HOUSE EQUIPMENT, PROJECT EQUIPMENT

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ROOF

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STAIRS, BALCONIES, FENCES, GATES

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INTERIOR FINISH

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EXTERIOR FINISH

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LANDSCAPE

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WINTER GARDEN

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IMPROVEMENT

GENERAL CONSTRUCTION OF FOUNDATIONS

Floating foundations

1



Shell piles

5



Swedish slab foundations

2



Strip foundations

6



Pile foundations

3



Screw piles

7



Driven piles

4



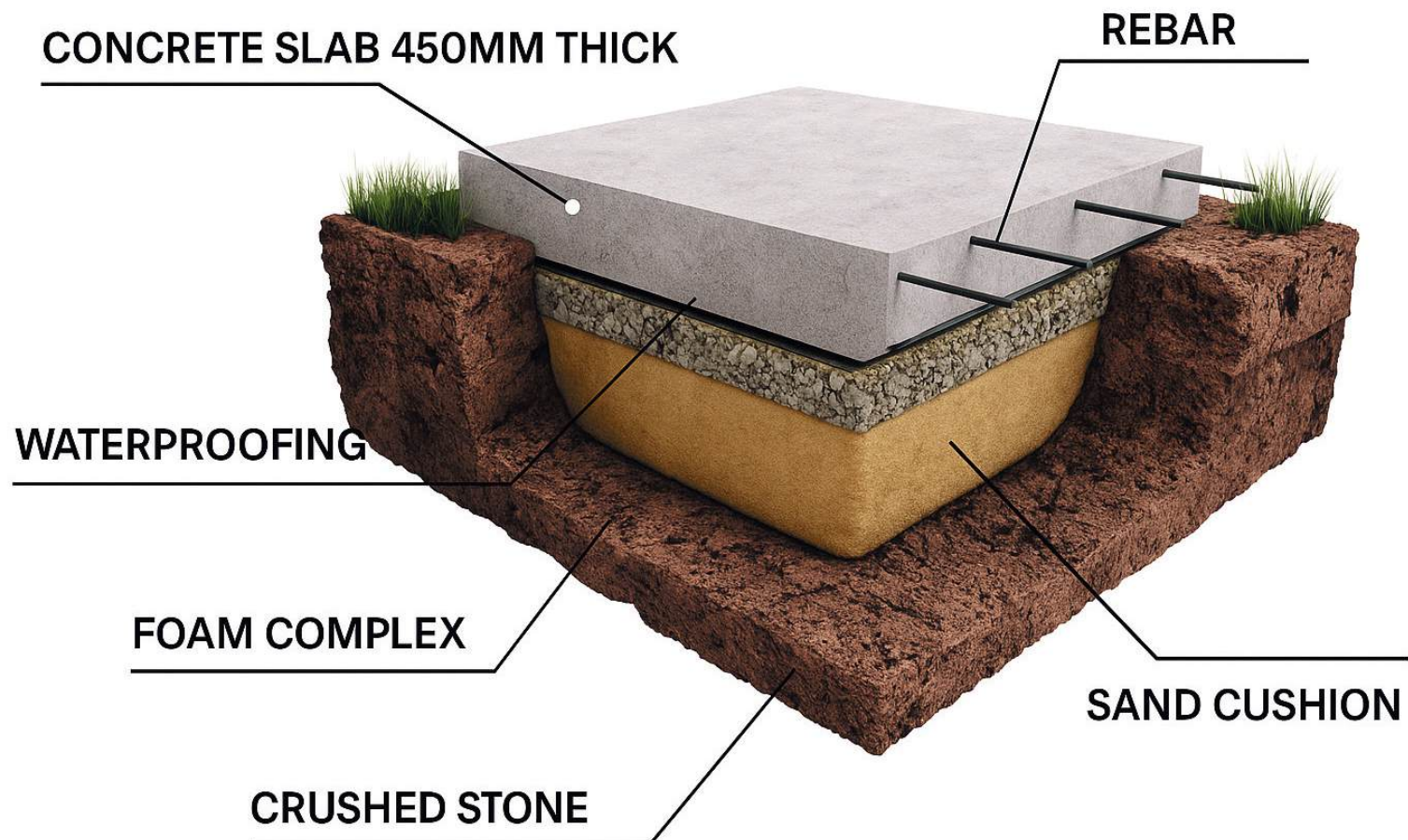
Drilled piles

8

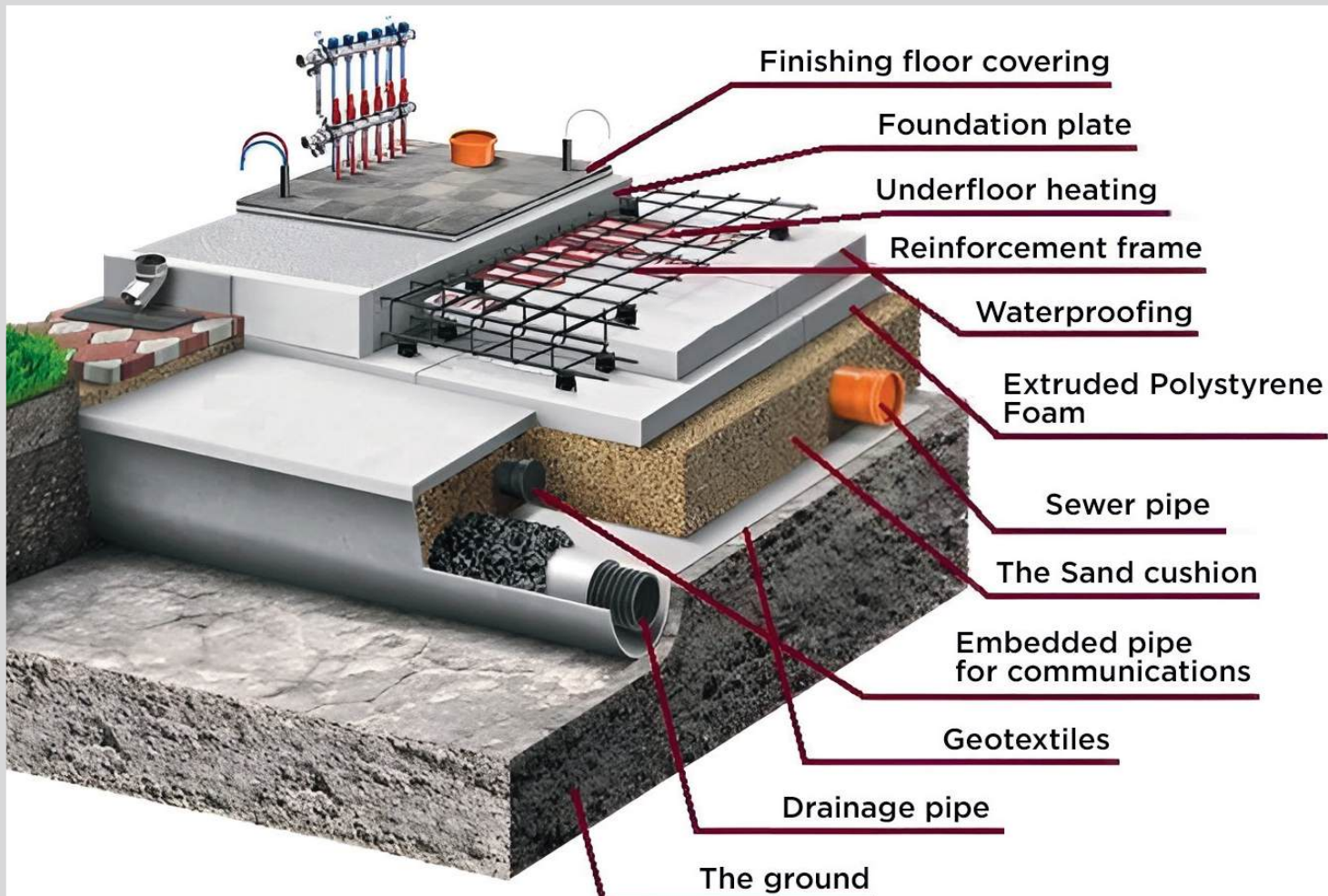


1. FLOATING FOUNDATION

A floating foundation is a non-settling foundation used in construction on soils with low bearing capacity, frost heaving, and high risk of liquefaction and seismic activity.



2. SWEDISH SLAB FOUNDATION

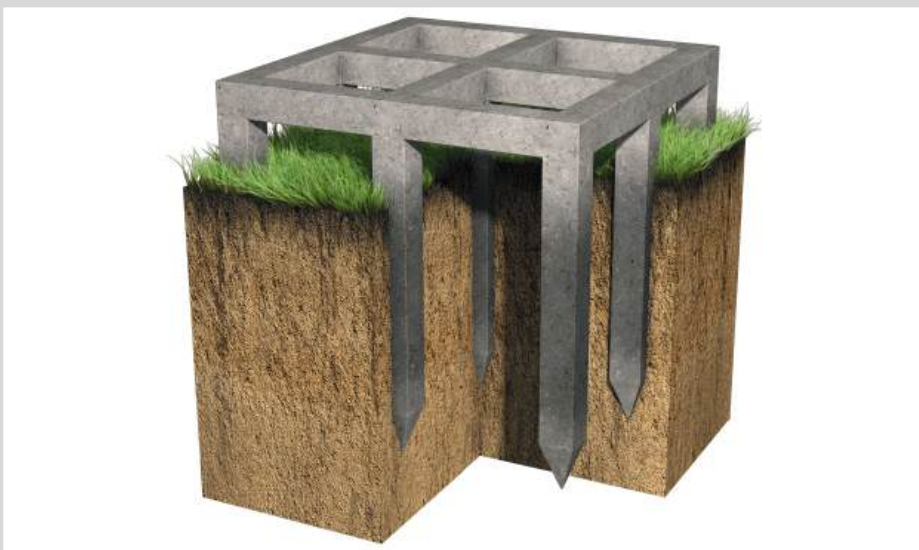


3. COLUMN FOUNDATION



For country houses, it is recommended to install a column foundation with a grillage. This is a monolithic slab or frame that connects the columns at the top, giving the structure greater strength and rigidity.

4. DRIVEN PILES



A reinforced concrete driven foundation is a reliable base for heavy structures that place a large load on the soil. Reinforced concrete piles for foundations are rods with a square or round cross-section and a pointed lower end. The most common are square piles with a side length of 200 to 400 mm and a length of 3 to 28 m.

5. SHELL PILES

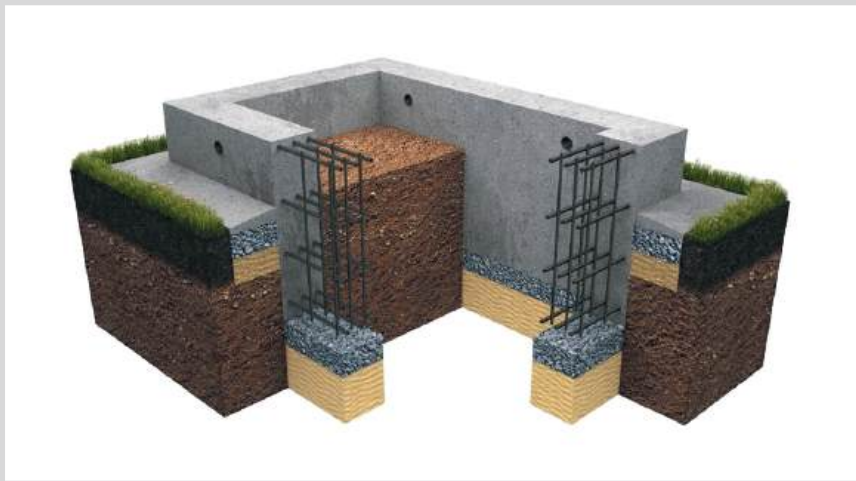
Shell piles are hollow piles ranging in size from 800 to 1600 mm, made of reinforced concrete, which may have a tip. Thanks to their large contact area between the walls and the soil layers, shell piles provide a high degree of stability.



They are used for building foundations on weak soils, in earthquake-prone regions, in conditions of increased pushing and pulling loads, and for the construction of bridges and overpasses.

6. STRIP FOUNDATION

A monolithic strip foundation is a reinforced concrete contour arranged under all load-bearing walls of a building under construction, which allows the entire load of the building to be transferred evenly to the ground. Strip foundations are the most common and cheapest type of foundation for capital buildings.



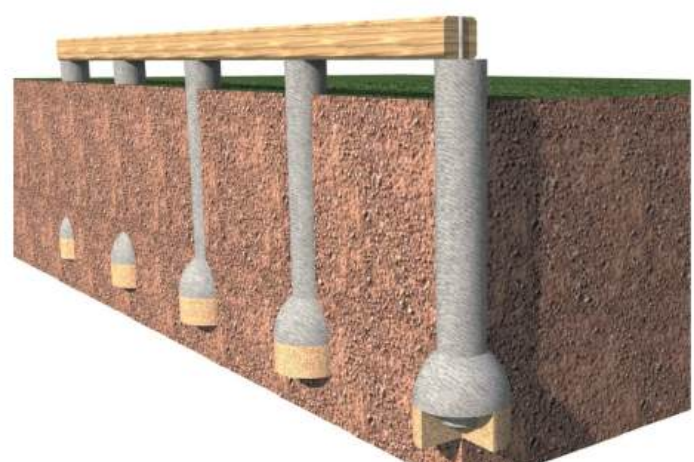
7. SCREW PILES

A screw pile is a foundation for a house made of steel piles that are screwed into the ground and connected by a grillage. A screw pile is an element of a quick-to-build foundation that can be driven into almost any soil. Such piles are made of steel pipes of various diameters with special blades for screwing into the ground either manually or with special machines (Steel thickness not less than 3 mm, blades not less than 4 mm).



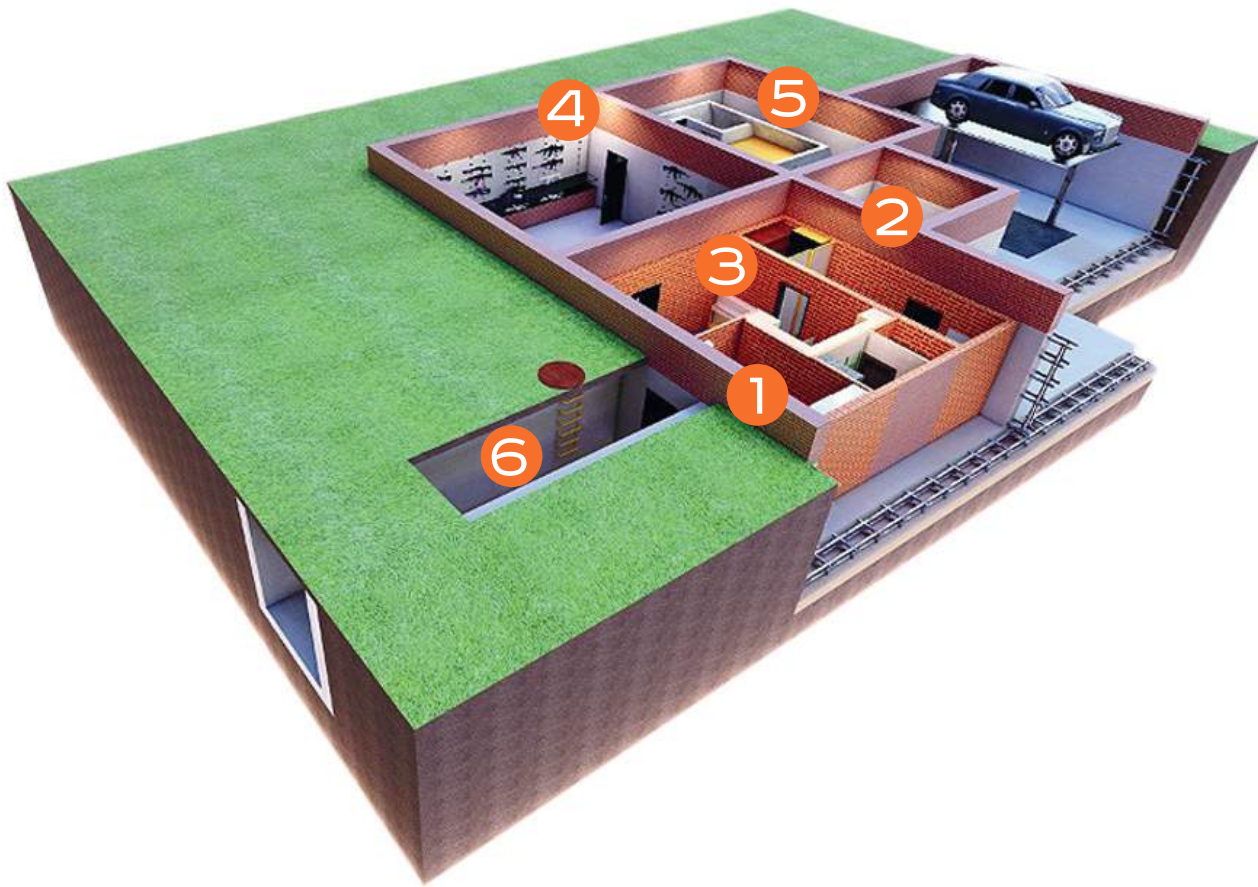
8. DRILLED PILES

Drilled piles are a type of support used for installing foundations. To install a support post, a hole is drilled, a casing pipe and a reinforced frame are lowered into it, and concrete is poured in.

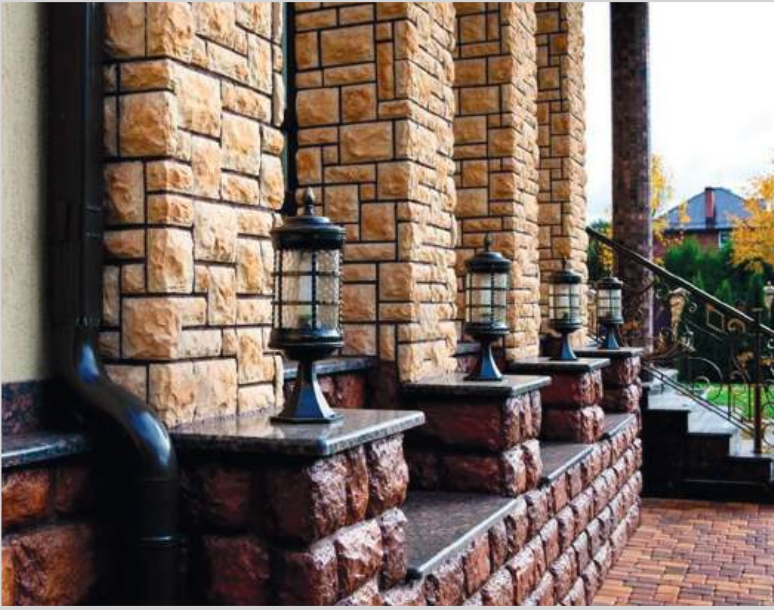


GENERAL CONSTRUCTION
OF BASEMENT FLOOR

Basement	1
Basement floor	2
Room Security	3
Armory	4
Bunker	5
Tunnel	6



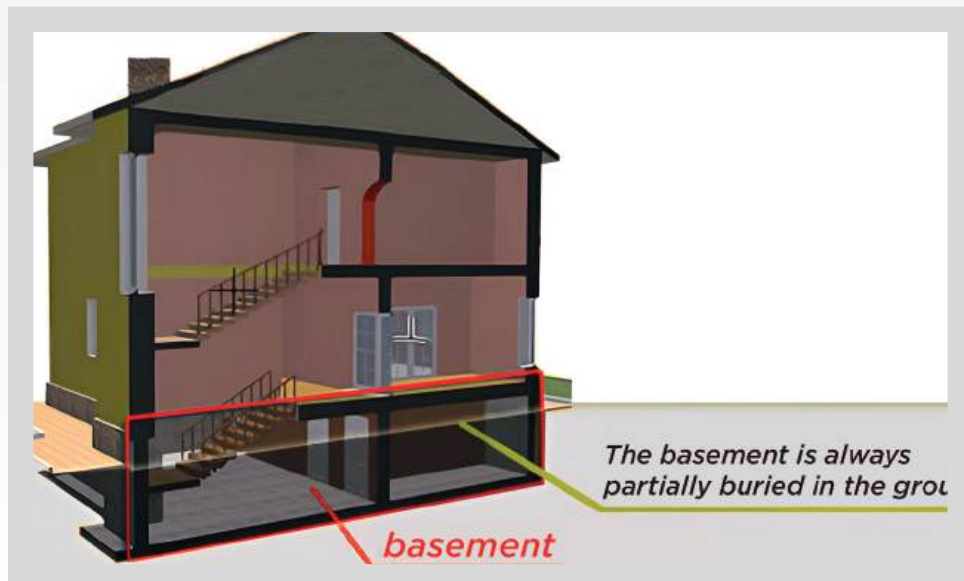
1. BASE



The base is a structural element of a building located between the foundation and the walls of the first floor. It is needed, in particular, to protect the building from moisture and cold. For this reason, it is additionally covered with insulation and protected from moisture with waterproofing materials. The junction between the plinth and the walls and floor of the first floor must be well protected from external influences. Waterproofing and thermal insulation prevent sediment and soil moisture from penetrating the building material and also prevent condensation from forming. The presence of a basement also protects the interior from the cold and allows you to comfortably survive even very cold winters.

2. BASEMENT

The basement is an accessible room used for temporary or permanent habitation, with a floor level below the ground level around the building. The height of the basement must not be less than 2.5 meters (to be considered a floor), and it can rise no more than one meter above the ground.



3. SECURITY ROOM

A security room is a reinforced room installed in a private home or business to provide a safe haven for life or a secluded place for residents in the event of a break-in or intrusion into the home.



4. ARMORY



An armory is a specially equipped room for storing weapons and ammunition.

5. BUNKER

A bunker is a reinforced or armored room that is completely or partially buried underground and is intended for civil defense or for housing communication nodes and attacks. It is used as a bomb shelter in other cases of natural disasters or military aggression. A bunker is a reinforced concrete box filled with various systems, with walls ranging from 200 mm to 1 m thick or more.



6. TUNNEL

Tunnels are increasingly used in private housing construction, fitting organically into modern designs and responding to the rhythms of life. They can be used to move from one building to another without going outside.



GENERAL CONSTRUCTION OF WALLS

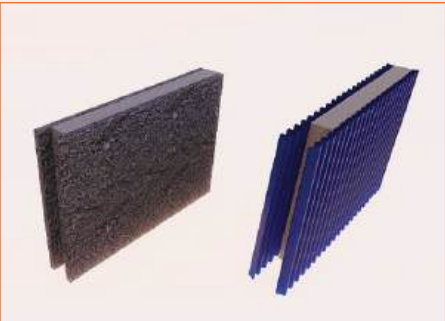
Brick wall 1



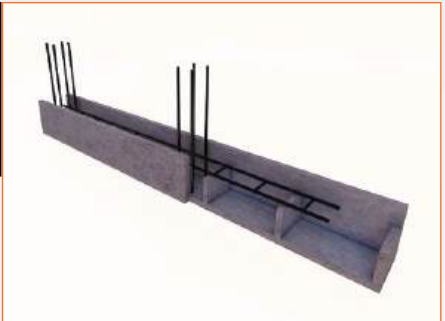
Cellular concrete 6



Prefabricated wall 2



Permanent formwork 7



Wooden wall 3



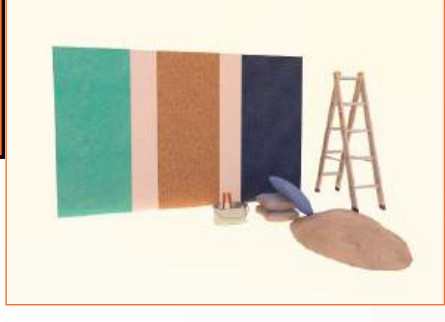
Stone wall 8



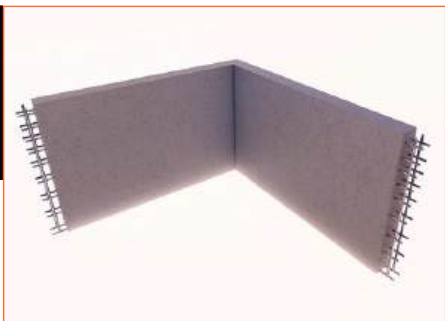
Frame wall 4



Plaster 9

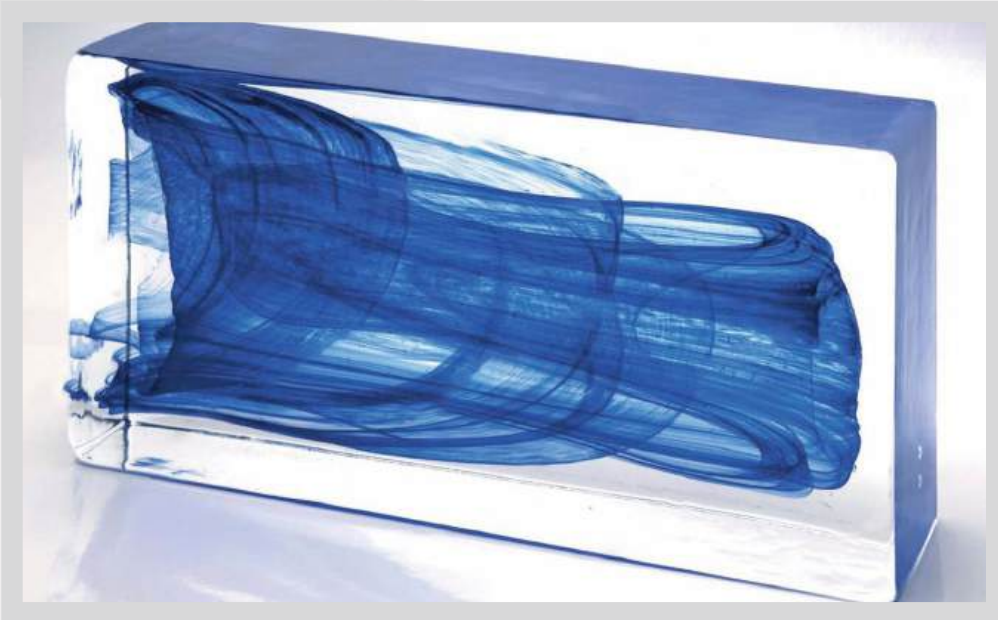


Monolithic wall 5



1. GLASS BRICKS AND GLASS BLOCKS

Glass bricks and glass blocks are modern materials that can be used to create original architectural and design solutions. They are widely used in interior design and for finishing building facades. The design of these materials allows you to add new accents to the exterior or interior design, change the visual perception, and make objects more interesting.



1.1. CLINKER BRICKS

Clinker bricks are the most durable and wear-resistant building and finishing material with an unlimited service life. They are made from special types of clay by extrusion at 1300 degrees.

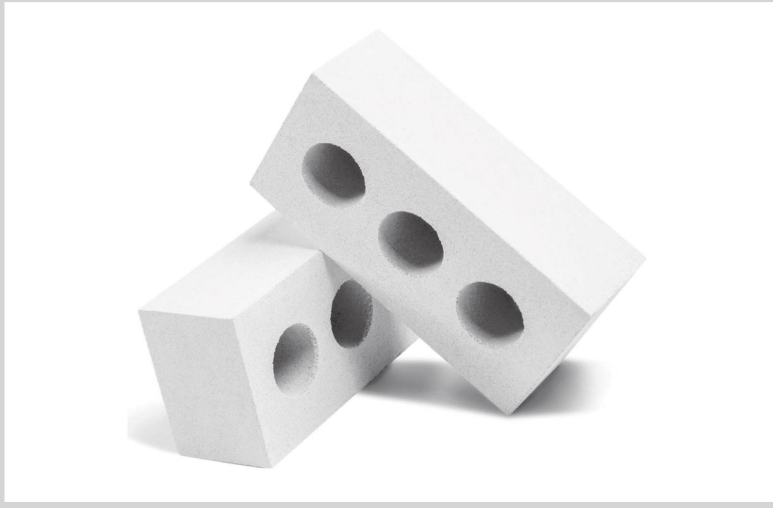


1.2. LEGO BRICKS

Lego bricks are an innovative building material created on the principle of LEGO construction sets. They are made of natural materials that are highly durable and resistant to external influences. The bricks are connected to each other by special fasteners, which allows you to build structures of any complexity.



1.3. SILICATE BRICK



Silicate brick is an artificial unfired wall material made from lime, sand, and water. The mixture of these components is pressed, then autoclaved under high pressure and temperature to achieve hardness and strength.

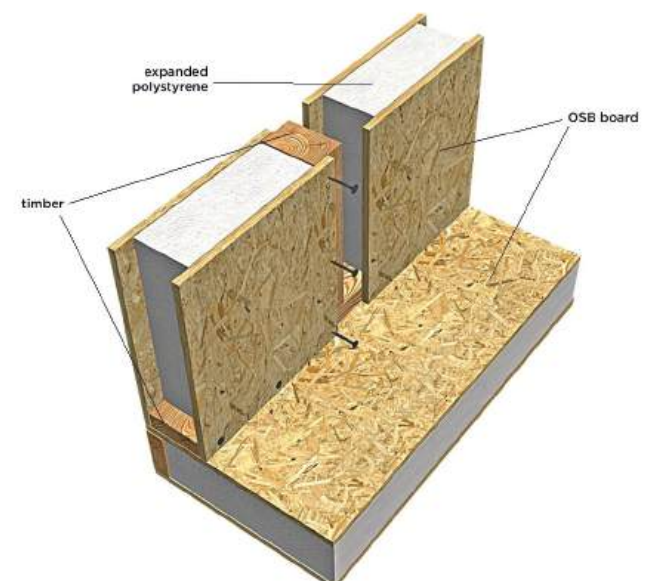
1.4. CERAMIC BLOCK

A ceramic block or ceramic stone is an artificial ceramic stone of complex shape, designed for laying walls, partitions, and floors.



2. QUICK-BUILD PANELS

A popular building material constructed on the principle of a three-layer sandwich, with a core of insulation (expanded polystyrene) enclosed on both sides by oriented strand boards (OSB). A sandwich panel is a building material with a three-layer structure consisting of two sheets of rigid material.



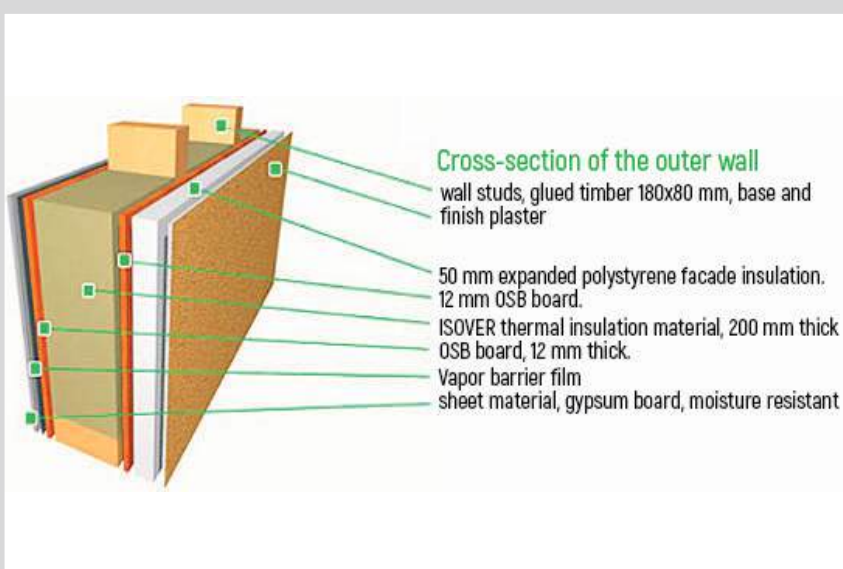
3. WOODEN WALLS



Wooden houses are houses built from sawn, log, planed, rounded, or glued timber. Various types of wood are used for wooden houses. A wooden house is one of the most comfortable and convenient structures for human habitation. The advantages of log houses are endless.

4. FRAME WALLS

Frame walls are vertical exterior enclosing structures of a building or structure consisting of a flat frame (stud-rigger), a thermal insulation layer, layers of polymer materials—vapor barrier and wind barrier, and exterior and interior finishing layers.



5. MONOLITHIC WALLS

Monolithic construction refers to the process of erecting buildings using only one type of material. In modern technologies, this method involves pouring concrete into reinforced structures.



6. CELLULAR CONCRETE

Cellular concrete is a building material that combines the properties of artificial stone and wood. It is characterized by relatively high strength, improved thermal and sound insulation properties, and environmental and hygienic safety.



6.1. FOAM CONCRETE

Foam concrete is a hardened foamed stone obtained by hardening a mixture of cement, sand, water, and a foaming agent, capable of removing water through micropores.



6.2. AERATED CONCRETE

Aerated concrete is a natural and environmentally friendly building material designed for the construction of exterior and interior walls, as well as partitions in residential and commercial buildings, from private houses to high-rise buildings. Proper gas blocks are made from a type of cellular concrete—aerated concrete without any impurities. It consists of ordinary cement mortar, sand, and water with the addition of aluminum powder, which causes gas formation (releasing hydrogen).



7. PERMANENT FORMWORK

Permanent formwork consists of panels or blocks made of various materials that are assembled into a single structure. It is a unique form designed for laying monolithic concrete. It helps simplify and speed up construction by combining several operations into a single technological cycle. After the concrete has set, the permanent formwork becomes a functional part of the finished wall structure. Permanent formwork is assembled on the construction site, so no heavy equipment is required during the work.

Types of permanent formwork:

- Expanded clay concrete
- Expanded polystyrene
- Wood-concrete panels or blocks, known as arbolit
- Glass-magnesium
- Reinforced panels



8. STONE WALL



A stone wall means strength and longevity for buildings. No other material can compete with stone in this regard. A house built with stone can truly be considered your fortress.

9. PLASTER

Levelling plaster is used on uneven walls with large differences in height. It can be applied in a thick layer. It usually has a high grain size. After it is applied, a layer of finishing plaster must be applied.



Basic plaster is standard and is applied to smooth walls before further finishing, such as wallpapering or tiling.

Finishing plaster is applied in a thin layer at the end of wall preparation. It has a fine grain and creates a smooth base for further finishing. It cannot hide large defects.

9.1. DECORATIVE PLASTER



Decorative plaster is an alternative to wallpaper, painting, and other finishing options. It can be used both inside and outside buildings. There are many options for application and texture creation. At the same time, it is not necessary to level the base to perfection. Decorative plaster is applied to the base and also hides minor defects. After hardening, the surface becomes durable, wear-resistant, and moisture-resistant. It is a simple yet reliable option for finishing walls.

9.2. TEXTURED PLASTER

The structural components are: stone chips (crushed or rounded), synthetic/ceramic granules, shell fragments, fibers of various origins, Steel dust, etc.



9.3. TEXTURED PLASTER



Textured plaster is an excellent solution when you want to move away from classic finishing techniques. It offers a wealth of design possibilities and stands out against wallpaper, paneling, and paint. However, not every type of material is worth buying.

9.4. VENETIAN PLASTER

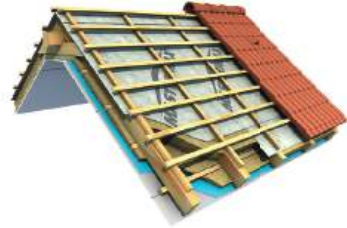


Venetian plaster is a decorative mixture for finishing interior surfaces. It consists of marble, quartz, granite, or other natural stone chips, as well as an acrylic or latex binder. In addition, there is a filler, which is lime, gypsum, or marble (sometimes granite) flour. The result is a semi-transparent paste with a thick consistency. It is colored to achieve the desired shade.

GENERAL CONSTRUCTION OF ROOF

Roof truss
system

1



Standing seam

7



Types of roofing

2



Cement-sand tiles

8



Metal tiles

3



Ceramic tiles

9



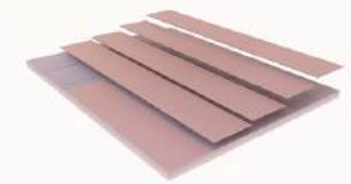
Profiled sheet metal

4



Flat
membrane
roofing

10



Soft roofing

5



Torflay roofing

11



Slate

6



ROOF

A roof is a structural upper element of a building or structure that protects the interior from the external environment. A roof consists of elements (rafters, beams, trusses, etc.) and an upper enclosing part—the roof covering.

Steel truss structures are prefabricated Steel elements consisting of simple rolled steel parts (I-beams, angles, etc.) used as load-bearing Steel structures for roofs of various types of buildings.

1. STEEL RAFTER STRUCTURES



Steel rafter systems are made of rolled steel, but for light, quickly erected buildings and structures (small hangars, stages, tents, pavilions, vegetable stores, etc.), aluminum rafters may be used.

1.1 COMPOSITE RAFTER SYSTEM

MAIN PROPERTIES OF A FIBERGLASS ROOF TRUSS SYSTEM.

Fiberglass has unique properties that make it one of the materials of the future.



1.2. LSTK ROOFING

For roofs, a light steel frame truss system is an undeniably reliable and, most importantly, cost-effective solution.



2. SINGLE-SLOPE ROOF

A single-slope roof is the simplest type of roof. It is a flat element inclined in one direction.



2.1. GABLE ROOF

Gable roofs are the most common type of roof due to their convenient design and ease of installation.



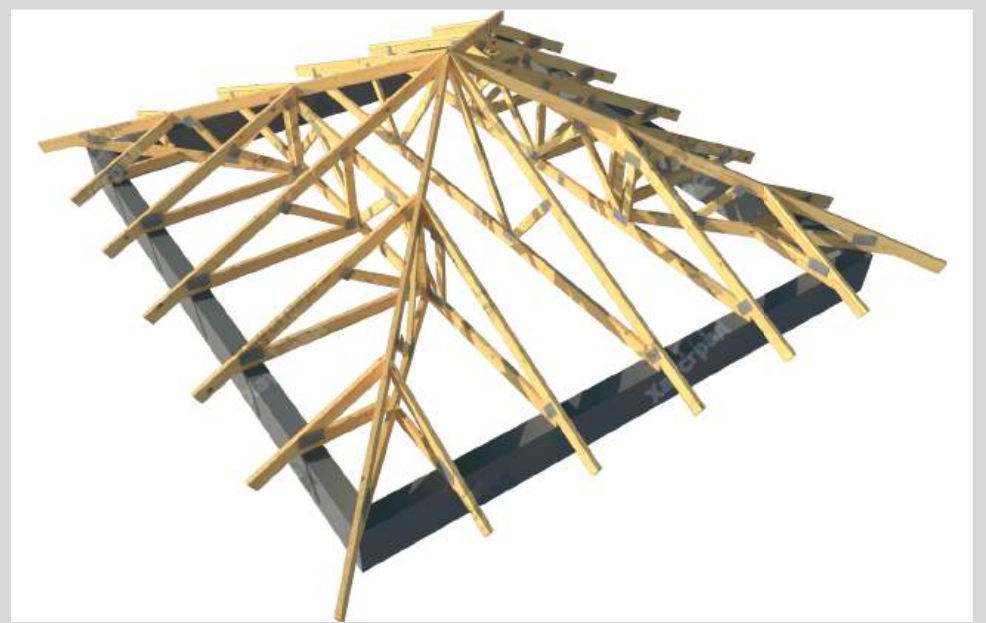
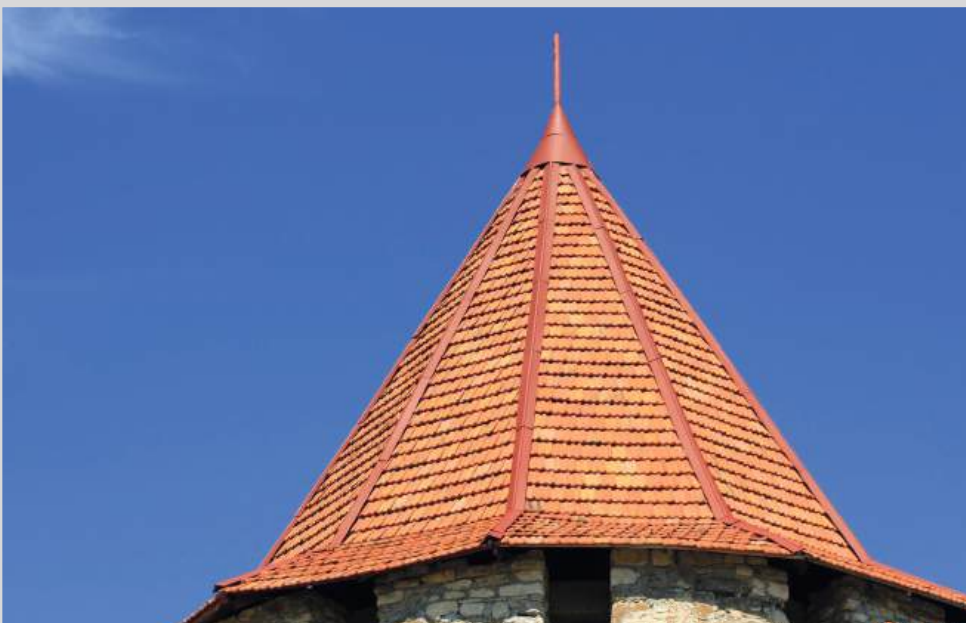
2.2. SPECIFIC VARIANTS

Mansard roofs – these have two slopes, but four pitches.



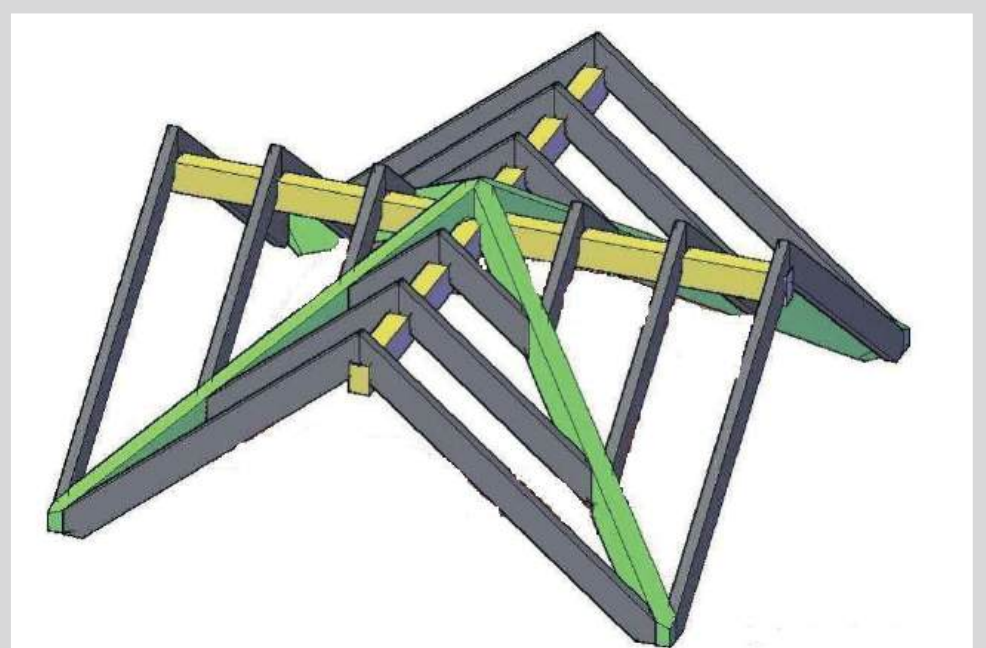
2.3. HIPPED ROOF

A hipped roof is a structure made of triangular segments that converge at a single point.



2.4. MULTI-GABLED ROOF

A multi-gabled roof consists of several gabled elements connected into a single structure.



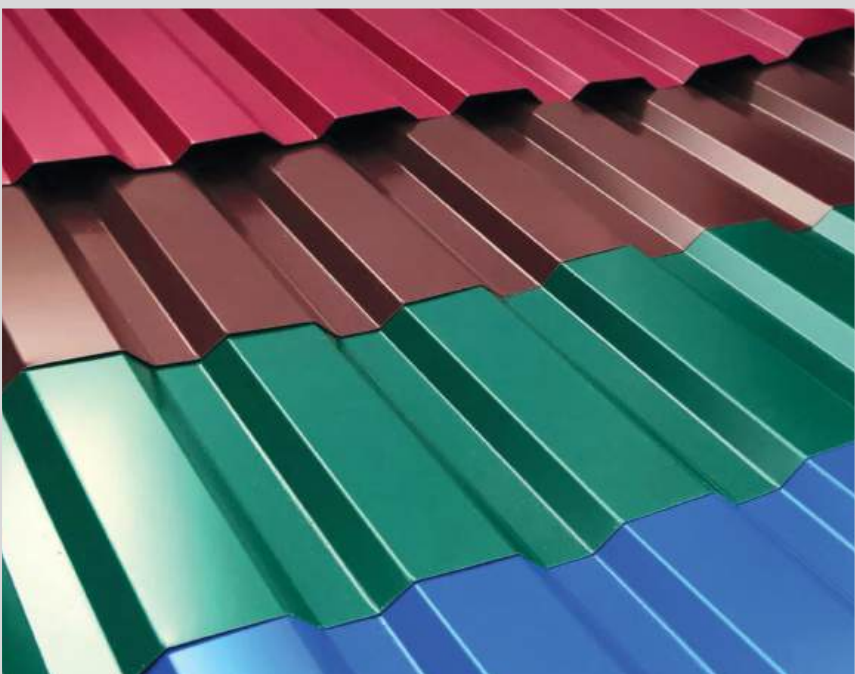
3. STEEL ROOFING TILES

Steel roofing tiles are sheet roofing materials whose main advantage is their strength and, as a result, durability.



4. PROFILED SHEET STEEL

Profiled sheet Steel is a modern material with a protective coating. Steel sheets are profiled, which gives them a number of positive qualities.



5. SLATE



Asbestos cement slate is a roofing material consisting of flat or corrugated asbestos cement sheets.

6. STEEL STANDING SEAM

A standing seam roof is made of galvanized steel sheets joined together with a standing seam (a type of joint made by bending the edges of the sheet). A standing seam is made along the roof slope, and a lying seam is made across it (this is done to prevent rain and melt water from getting into the



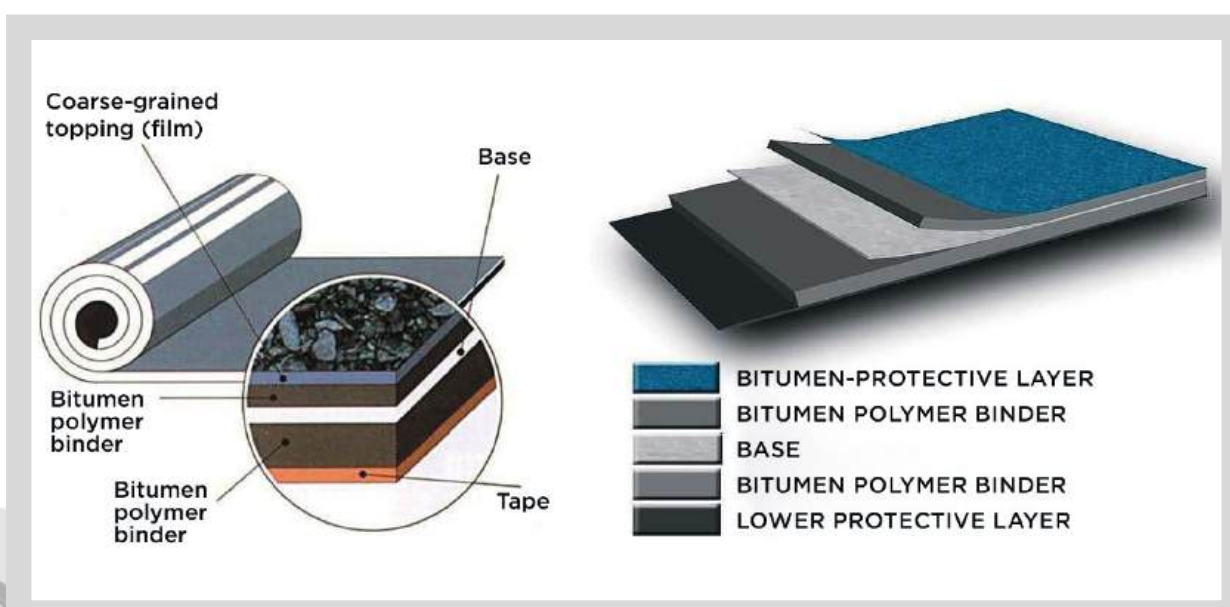
6.1. COPPER STANDING SEAM

A standing seam copper roof consists of strips of rolled copper material cut to a specific length to cover the length of the roof slope.



7. SOFT ROOFING

Soft (flexible) roofing is a durable, reliable roofing material. Like any material, it has certain advantages, technical characteristics, and installation features.



8. CEMENT-SAND TILES

Cement-sand, or mineral, tiles are a type of natural tile made from high-quality Portland cement, quartz sand, and mineral pigments, which are mixed into the mass.

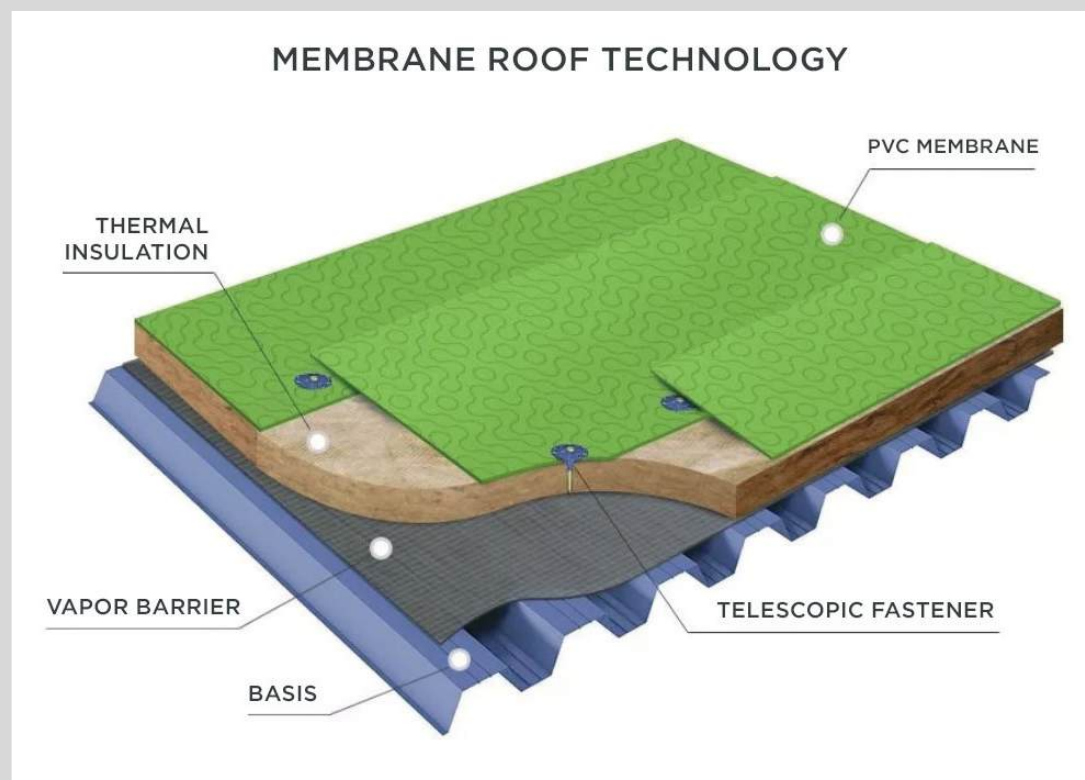


9. CERAMIC TILES

Ceramic tiles are individual natural materials made from fired clay. The production process involves preparing the raw materials, shaping the clay blanks, drying them, and then firing them at a temperature of around 1000 °C.



10. FLAT MEMBRANE ROOF



A membrane is a type of film material used for covering. It is approximately 2 mm thick and consists of polymers. It is considered an excellent option for installing roofs on sloping and flat roofs. It is less commonly used in the construction of houses with pitched roofs.

2.2. TORCH-APPLIED ROOFING

Torch-applied roofing is a kind of carpet that acts as a waterproof barrier and can replace the final roof covering. A few years ago, this material was short-lived and consisted of nothing more than roofing felt, but today there are many varieties available on the construction market.



GENERAL CONSTRUCTION OF ROOF

Operational roof



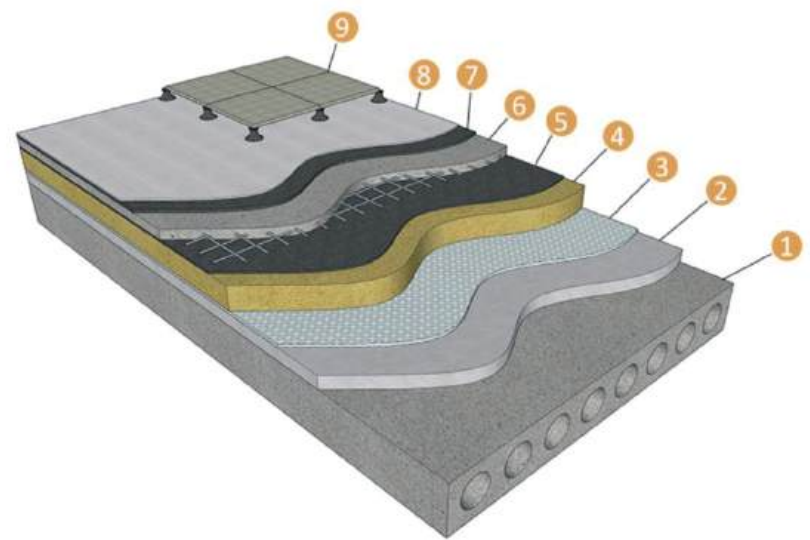
1. ROOF IN USE



TRADITIONAL ROOF IN USE



INVERTED ROOF IN USE



GENERAL CONSTRUCTION OF WINDOWS

Smart windows

1



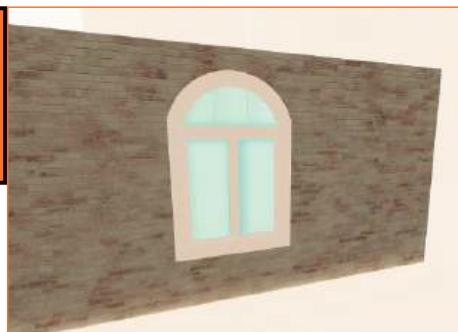
Windows
Sliders

5



Aluminum
windows

2



Wooden
windows

6



Plastic
windows

3



Armored
windows

7



Metal-plastic
windows

4



Skylights

8



1. PLASTIC WINDOWS WITH SMART GLASS

Modern plastic windows with smart glass (electro-tinting) are a revolutionary solution that transforms ordinary windows into modern multifunctional systems. Now you can control the amount of light entering your home and your level of privacy with just the touch of a button.



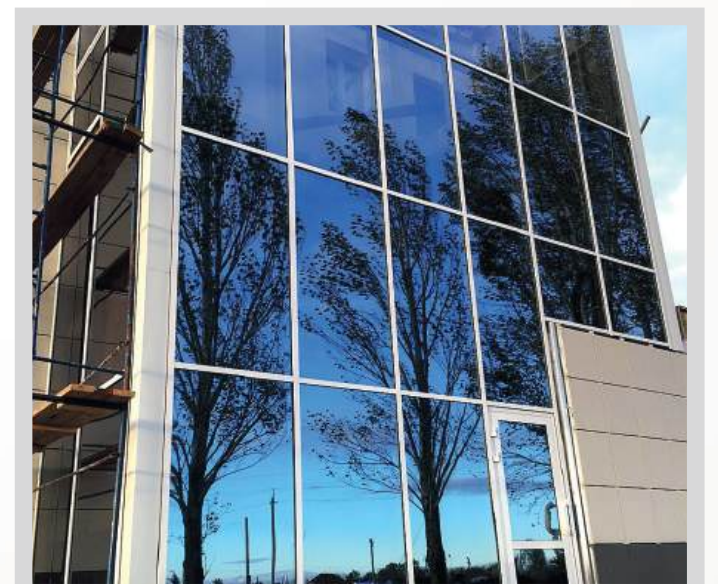
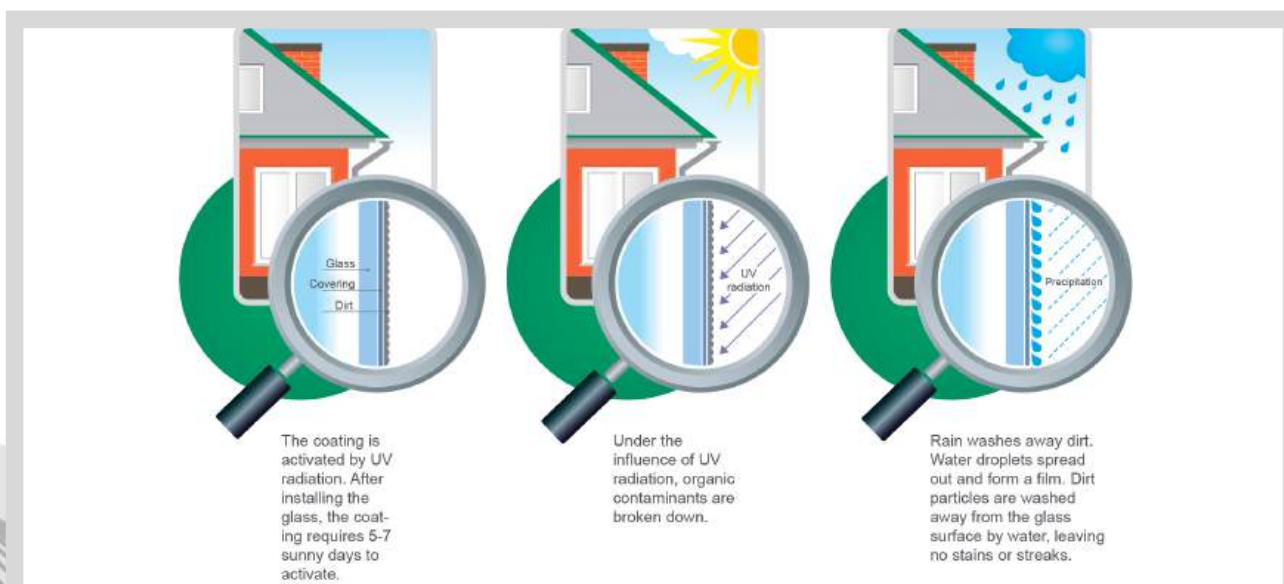
1.1. PLASTIC WINDOWS WITH AUTOMATIC ELECTRIC DRIVES

Smart glass and automatic opening are the perfect combination of comfort, safety, and modern technology in your windows. With automatic drives, PVC windows will operate according to a set ventilation mode, without human intervention, or according to a command sent by the user to open/close the sashes.



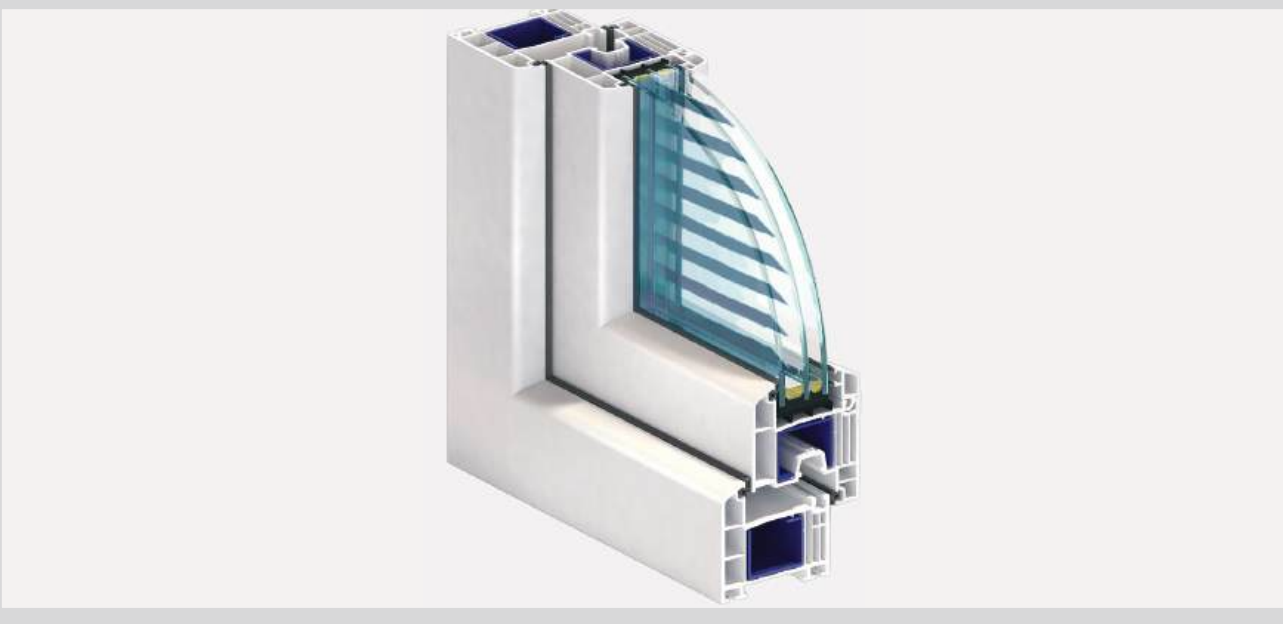
1.2. SELF-CLEANING DOUBLE-GLAZED WINDOWS

Self-cleaning double-glazed windows use glass with a hard coating that has special properties. Created using online coating technology during the manufacturing process, self-cleaning glass is designed for exterior glazing of buildings.



1.3. DOUBLE-GLAZED WINDOWS WITH BUILT-IN BLINDS

Double-glazed windows with built-in blinds are an effective solution with an additional sun protection feature.



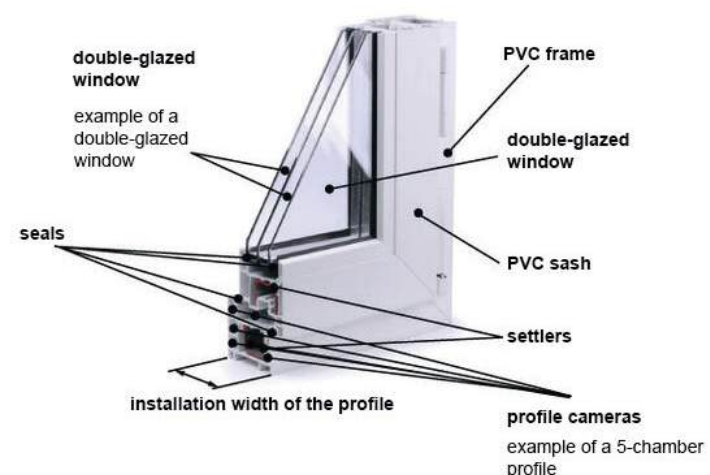
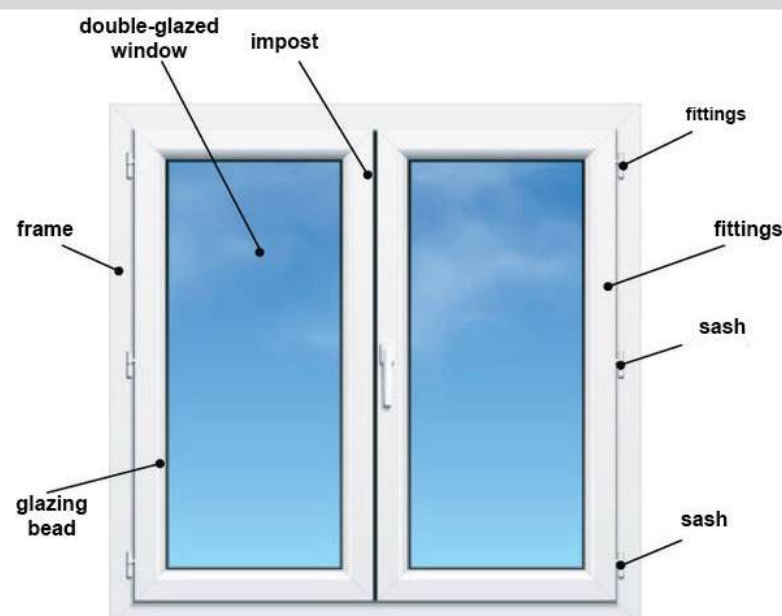
2. ALUMINUM WINDOWS

Aluminum windows are an indispensable solution when PVC windows cannot be installed for a number of reasons.



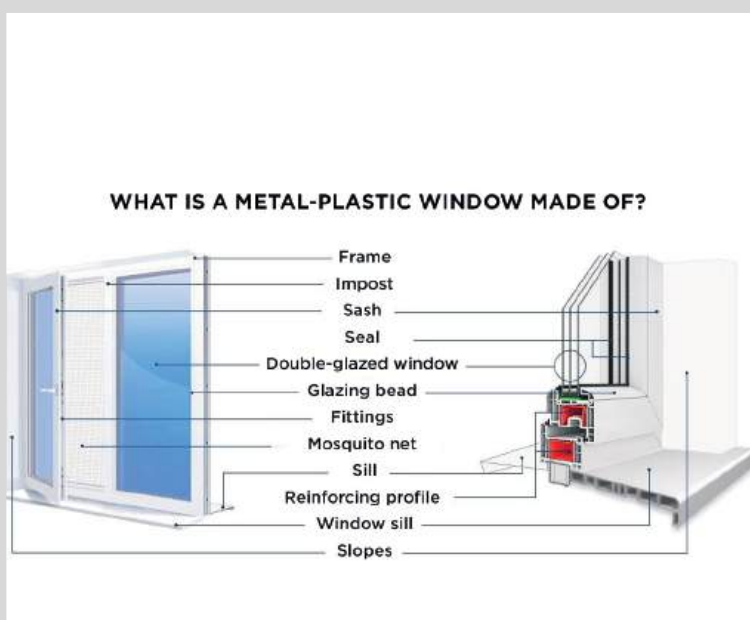
3. PLASTIC WINDOWS

A plastic window is a structure made of PVC material consisting of several elements (double-glazed window, Steel profile, slopes, fittings, flashings).



4. STEEL-PLASTIC WINDOWS

Steel-plastic windows are modern translucent structures made of reinforced PVC profiles, which provide the necessary strength and rigidity of the product.



5. SLIDING WINDOWS

Sliding windows are often called English windows; when closed, they slide vertically up and down.



6. WOODEN WINDOWS



7. ARMORED WINDOWS

Armored windows are translucent structures that protect people and property inside a room from damage or intrusion through the window opening.



8. SKYLIGHTS

A skylight is a specially designed window intended for installation on the roof of a house with an attic. Skylights are designed to withstand the same loads as the roof of the building. This feature distinguishes skylights from conventional vertical windows located in the walls of rooms.



GENERAL CONSTRUCTION OF DOORS

Smart doors

1



Laminated
doors

7



Metal doors

2



Glass doors

8



Panel doors

3



Fireproof
doors

9



Flush doors

4



Armored doors

10



1. SMART DOORS

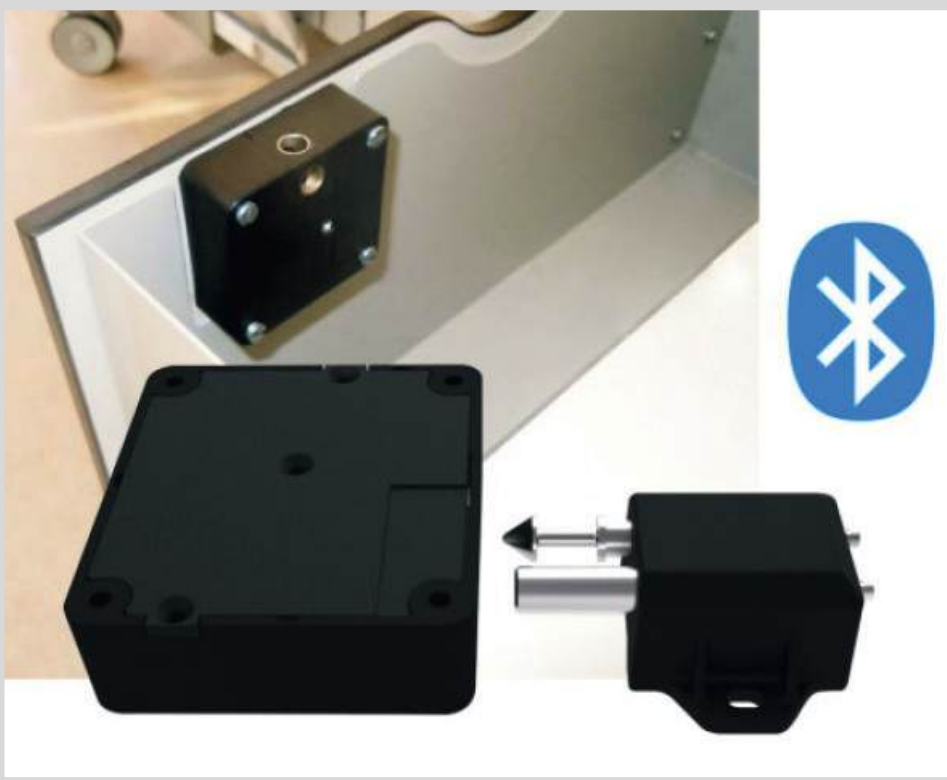


This term is used by specialists to refer to door leaves and entrance units equipped with an electronic locking/opening system. Externally, the user may not see any locking mechanisms at all, but instead operate special cards. In the most advanced versions, the manufacturer installs touch readers that work with fingerprints or iris patterns.

1.1. BIOMETRIC LOCKS



1.2. INVISIBLE LOCKS



1.3. CODE PANEL FOR LOCKS



1.4. SCANNERS



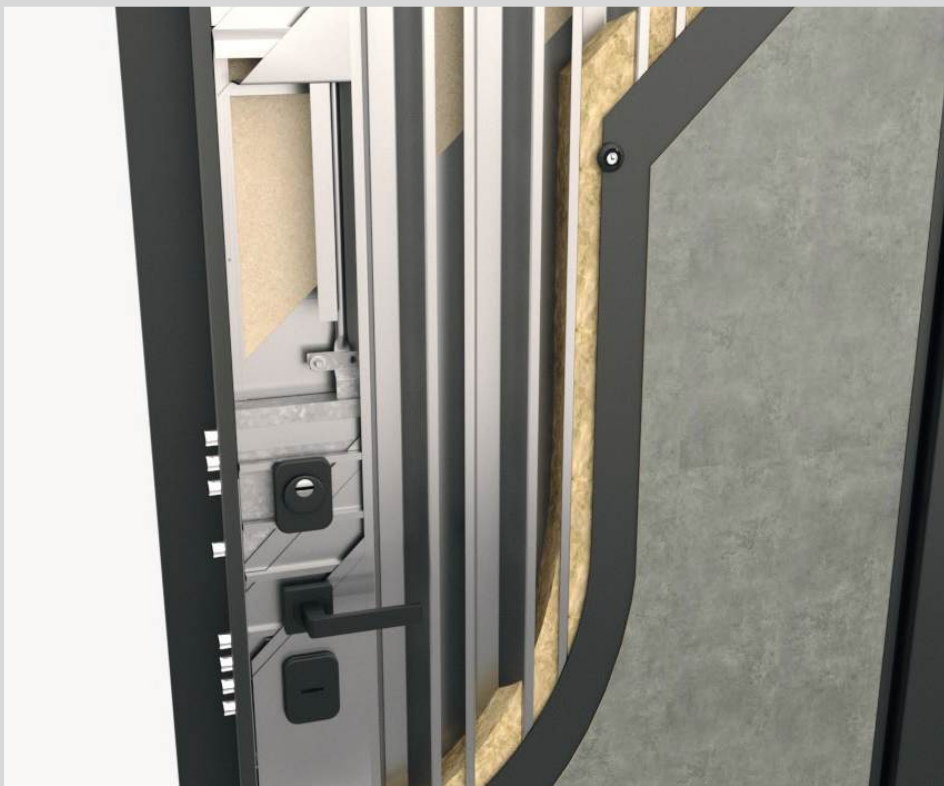
1.5. VIDEO DOOR PHONE



1.6. CALL PANEL

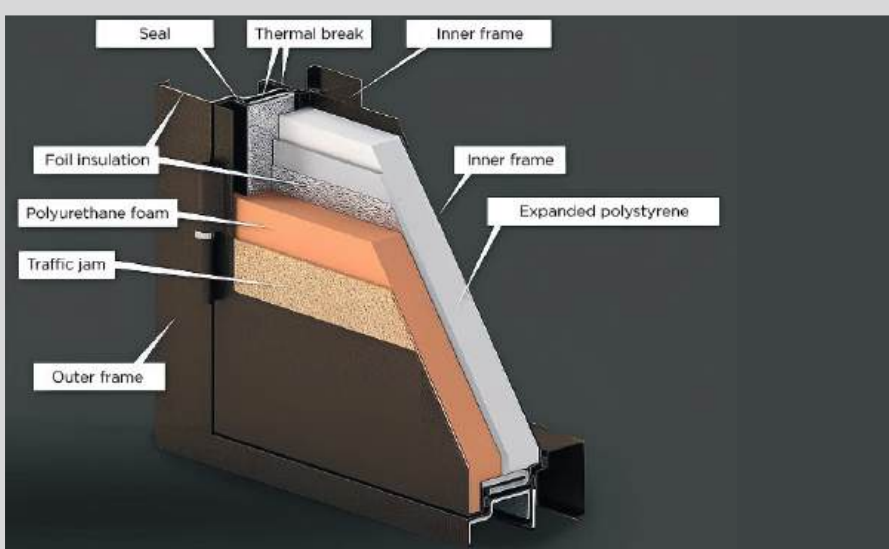


1.7. ARMOR PACKAGE



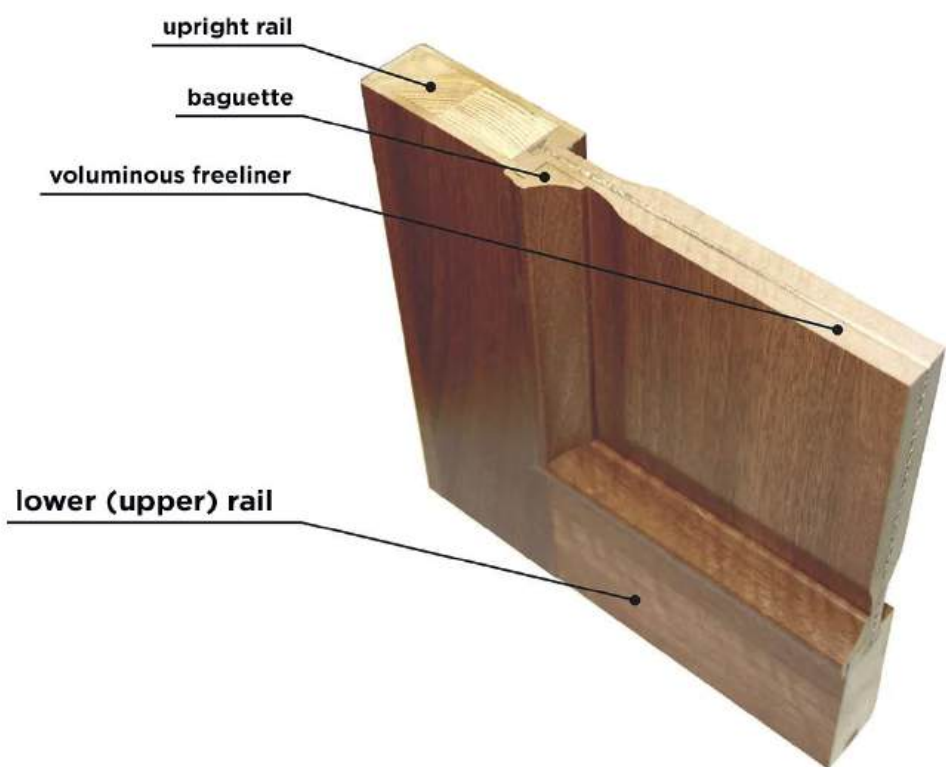
2. STEEL DOORS

The main material used to manufacture doors is steel. Steel products can be single-leaf (when steel is only on the outside) and double-leaf. They can be covered with various options (veneer, solid wood, composite materials).



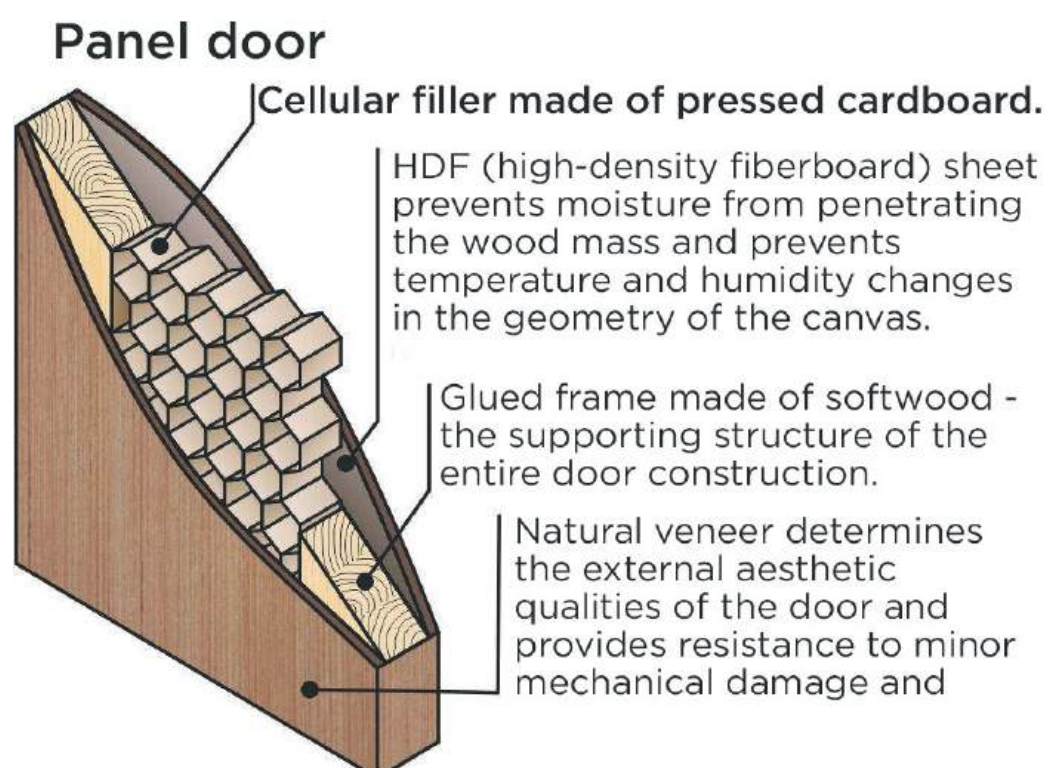
3. PANEL DOOR

Originally, a panel is a thin insert in a wooden door leaf, most often used on interior doors. In other words, it is a sheet of plywood, wood, glass, laminated chipboard, or MDF that is installed as a decorative element. Panels can vary in shape and size and differ in color from the main door leaf.



4. FLUSH DOORS

These are doors that have a cavity inside filled with a honeycomb filler made of cardboard or MDF. The base of the door is a frame made of solid pine. This frame is covered on both sides with a sheet of MDF. This creates a hollow space that is filled with a honeycomb filler made of cardboard or MDF sheets. The finish can be any coating: veneer, laminate, PVC, etc. Next, a specific shape is cut out of the solid panel for glass or a panel, which is attached with a baguette.



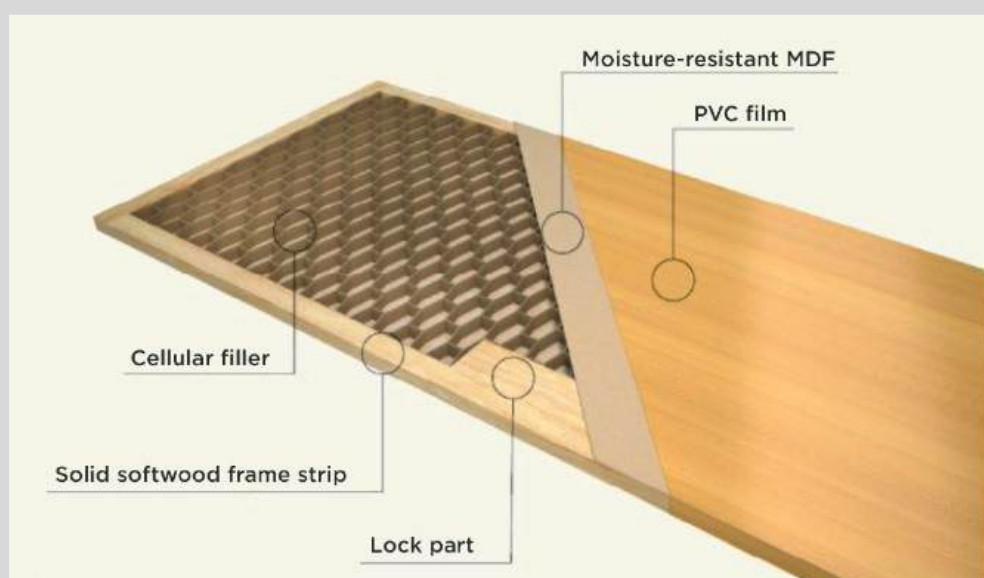
5. SOLID WOOD DOORS

Solid wood doors have a door leaf made of natural wood. Most often, this is a modular construction made of solid pieces glued together. Some solid wood models only have a frame, which ensures the strength and durability of the product.



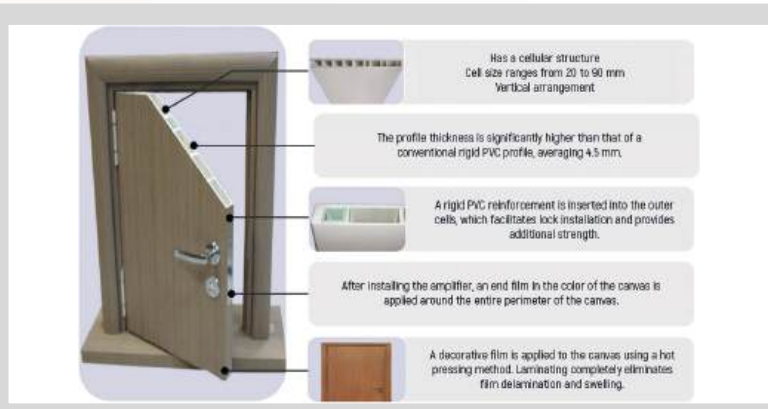
6. VENEERED DOORS

Veneered means refined with veneer, a thin sheet of natural wood. Specifically in door manufacturing, peeled and planed veneer up to 0.6 mm thick is used, taken from valuable species such as oak, abachi, walnut, wenge, mahogany, etc.



7. PLASTIC DOORS

Plastic entrance doors allow you to create a fundamentally new group of products. A striking example is plastic entrance doors, which can not only decorate the exit to a glazed terrace, but also serve as a classic street option, performing the main function of protecting the home.



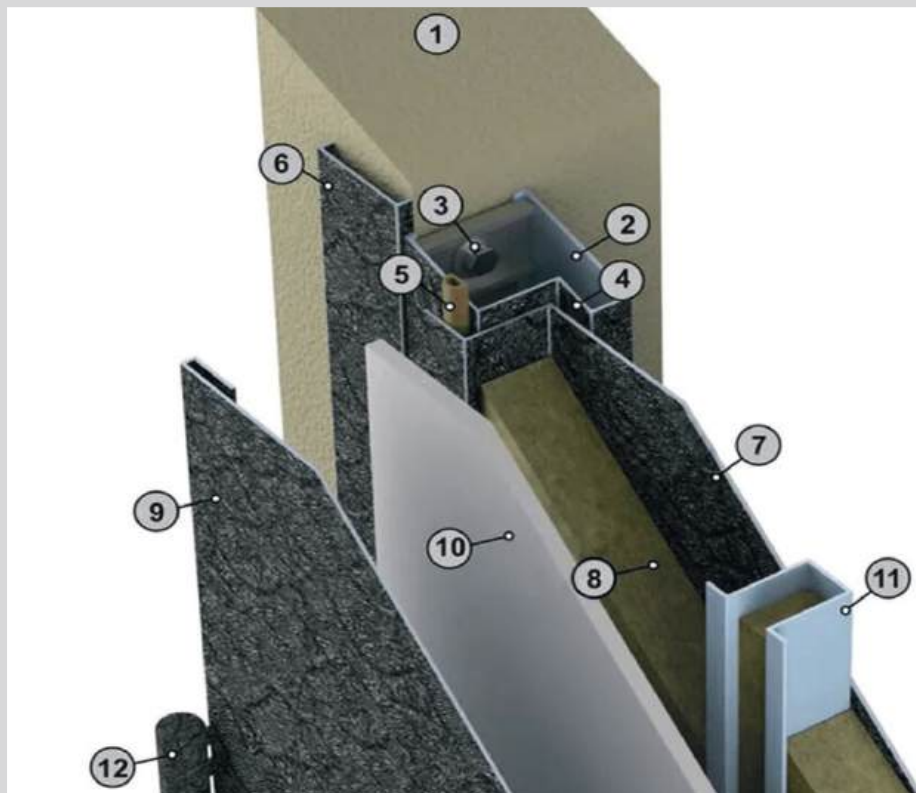
8. GLASS DOORS



Glass doors are the perfect element for any room, providing elegance and blending well with both traditional and modern interiors.

9. FIRE DOORS

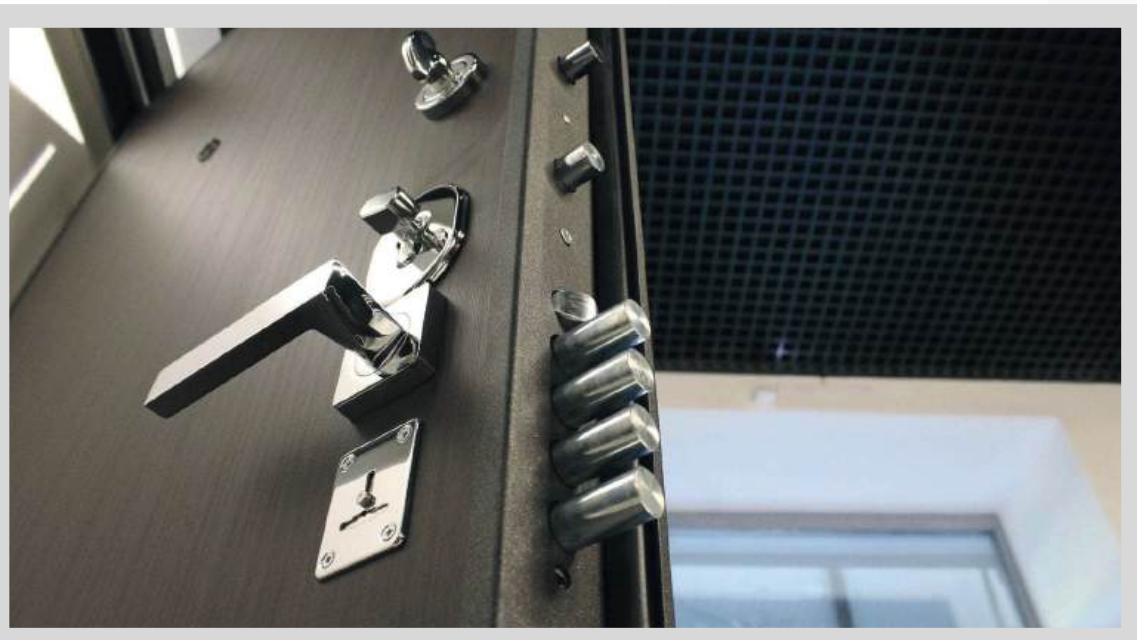
These doors protect rooms from the spread of smoke and fire.



1. Door opening
2. Frame
3. Fastening anchor
4. Thermally active tape
5. Rubber seal
6. Steel casing
7. Internal steel sheet 1.5 mm.
8. Non-combustible rock wool
9. 1.5 mm outer steel sheet.
10. Additional 10 mm fireproof layer.
11. Stiffening rib
12. Hinge on thrust bearing

10. ARMORED DOORS

Armored doors are structures with a complex internal system that provides maximum protection for the room against break-ins, fire, and bullets.



GENERAL CONSTRUCTION

STAIRS, BALCONIES, FENCES, GATES

Stairs

1



Balconies

2



Fences

3



Gates

4



1. SPIRAL STAIRCASE

In two-level apartments and houses with more than two floors, stairs are necessary to connect the floors. Among the many different types of stairs, spiral staircases are the most impressive and popular. They can be found in old buildings, but they remain an excellent architectural solution for interiors.



1.1. STRAIGHT STAIRCASES

In simple terms, these are a series of steps, one after the other, allowing a person to go up or down. Moving up or down any steps resembles marching, hence the name.



1.2. BOLTS STAIRCASES

The name “bolts staircase” comes from the fastening element used to secure the steps, which is called a bolt.



1.3. ATTIC STAIRS

In two-level apartments and houses with more than two floors, stairs are needed to connect the floors.



2. BALCONIES

Balconies are suspended platforms protruding from the vertical plane of the facade wall of a multi-story building.

2.1. OPEN BALCONY



2.2. CLOSED BALCONY



2.3. BALCONY WINDOW

This is a rather interesting design, but the technical solution is simply amazing. In appearance, it is a regular attic window located in the roof slope. But when opened, the handrail can be folded back to expand the space.



3. PROFILED SHEET FENCE

A profiled sheet fence is a continuous fence made of Steel profiled sheets.



3.1. WOODEN FENCE

A wooden fence is a fairly light structure that does not require a foundation.



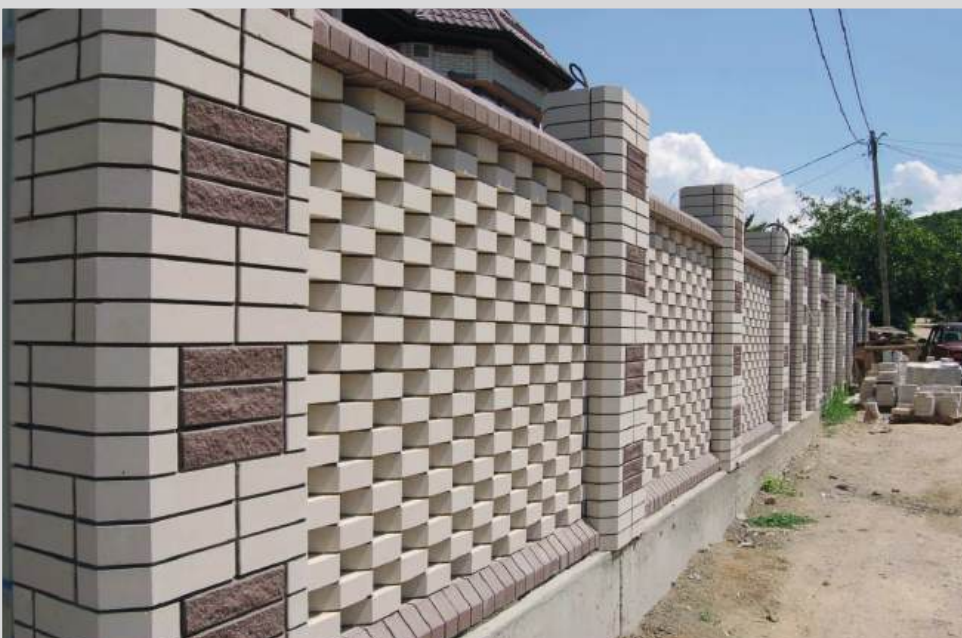
3.2. CHAIN-LINK FENCE

A chain-link fence is a mesh structural panel made by intertwining wire spirals.



3.3. BRICK FENCE

Its reliability is so great that before the invention of reinforced concrete, only brick structures were serious reinforced concrete slabs, mesh, and other similar structures did not provide such freedom.



3.4. WROUGHT IRON FENCE

A wrought iron fence is an elegant and beautiful fence that is often found in the exteriors of private properties. The sophistication of its elements sets the structure apart from other alternatives.



3.5. POLYCARBONATE FENCE



3.6. FIBER CEMENT FENCE

Fiber cement fence—facade board made of fiber cement with the texture of natural wood and the strength of concrete. Fiber cement panels are impact-resistant and durable.



3.7. PVC FENCE



3.8. SLIDING GATES

Sliding gates are modern structures that save space and are easy to use. When choosing a sliding gate, reliability and durability are important, as well as aesthetics and practicality.



3.9. SWING GATES

A swing gate is the simplest construction, consisting of one or two leaves, which are fixed to the posts. The gate can be opened outwards or inward, but in this case it is necessary free space on the plot.



3.10. ROLLER GATES

Roller gates are gates that roll up into a roll. The main purpose of roller gates is to protect gate and door openings from unauthorized entry into the premises. In essence, they are a type of roller shutter.



3.11. LIFT-AND-TURN GATES

Lift-and-turn gates are structures in which the gate leaf opens and closes by moving along special guides.



3.12. FOLDING GATES

Folding gates consist of one or two leaves, which are made up of several separate sections connected by hinges. When opened, the sections fold compactly like an accordion, locking securely at the edges of the opening.



GENERAL CONSTRUCTION OF INTERIOR FINISHING

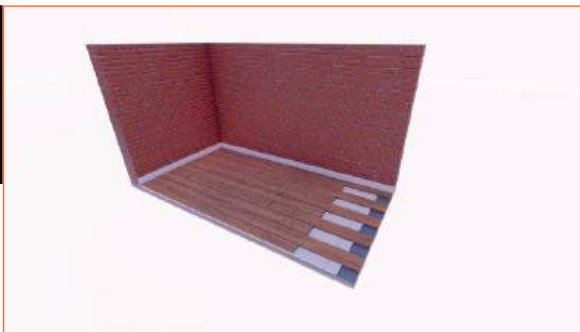
Panels

1



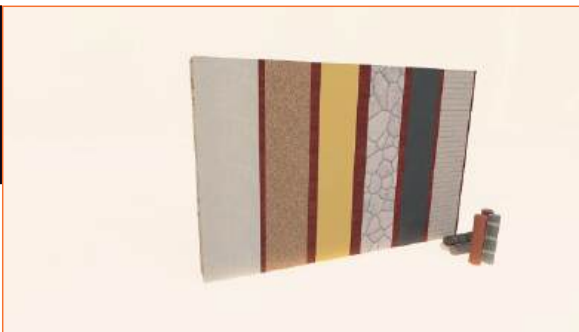
Laminate

5



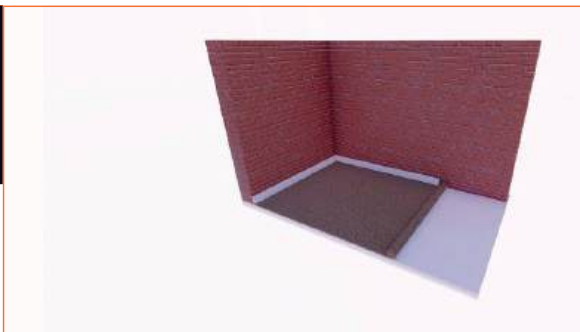
Wallpaper

2



Carpeting

6



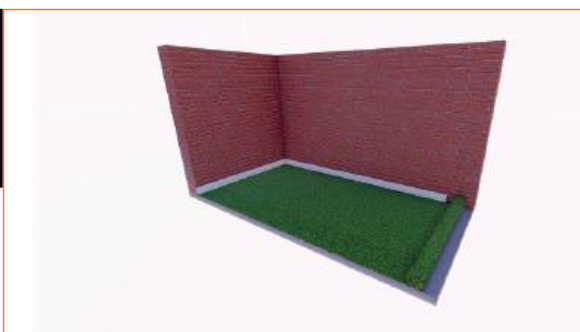
Paints

3



Artificial
grass

7



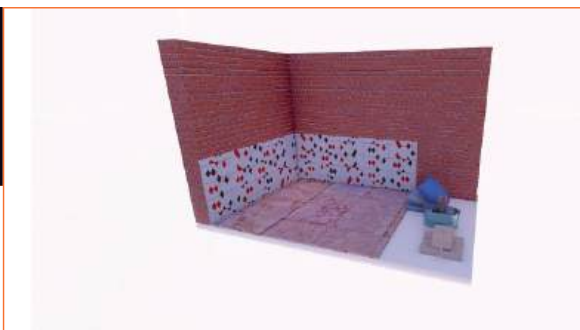
Linoleum

4



Ceramics
Facing

8



1. 3D GYPSUM PANELS

Gypsum panels have become, if not a breakthrough in the design industry, then certainly a fashionable trend in this market segment.



1.1 CORK PANELS

Cork materials have long been used for decorating walls, ceilings, and floors. In addition, cork is an excellent building material.



1.2 PVC PANELS

PVC (polyvinyl chloride) panels are a modern, lightweight, and inexpensive material for wall and ceiling decoration.



1.3. MDF PANELS

MDF panels are popular due to their ease of installation. The work does not require any special skills and can even be done by a novice.



1.4. WOOD PANELING

Wood paneling is one of the most desirable finishing options when creating interiors in various styles.



2. PAPER WALLPAPER

2.1. NON-WOVEN WALLPAPER

Non-woven wallpaper is a product with a non-woven base.



2.2. VINYL WALLPAPER

Vinyl wallpaper is a product made from non-woven fabric or paper with a polyvinyl chloride coating on the front.



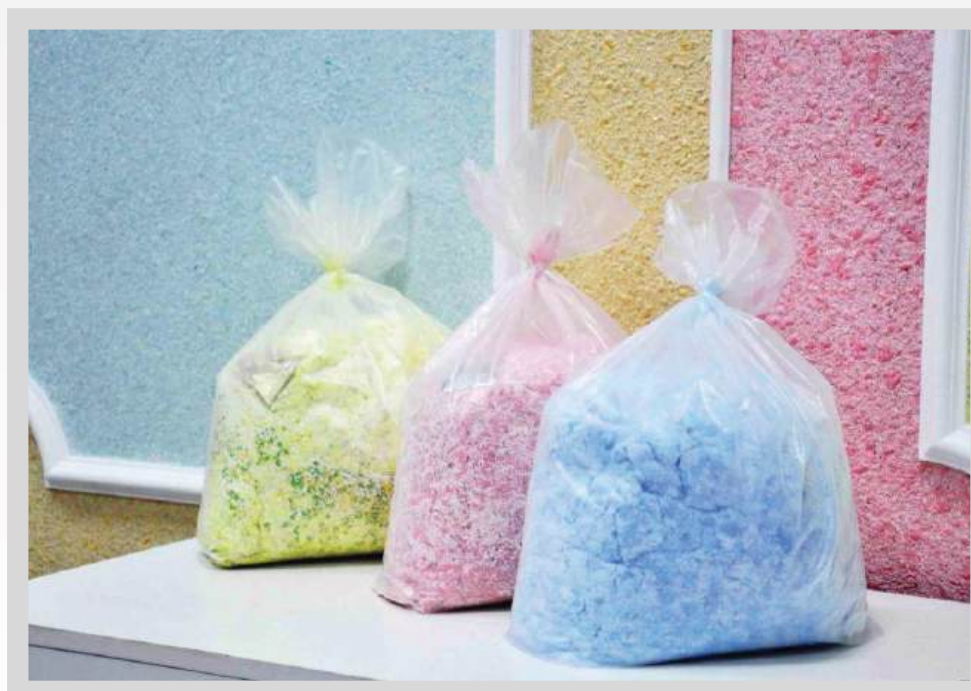
2.3. ACRYLIC WALLPAPER

Acrylic wallpaper is a worthy alternative to vinyl wallpaper. Instead of polyvinyl chloride, acrylic foam is applied to the base.



2.4. LIQUID WALLPAPER

Liquid wallpaper is a dry mixture that must be diluted with glue before application.



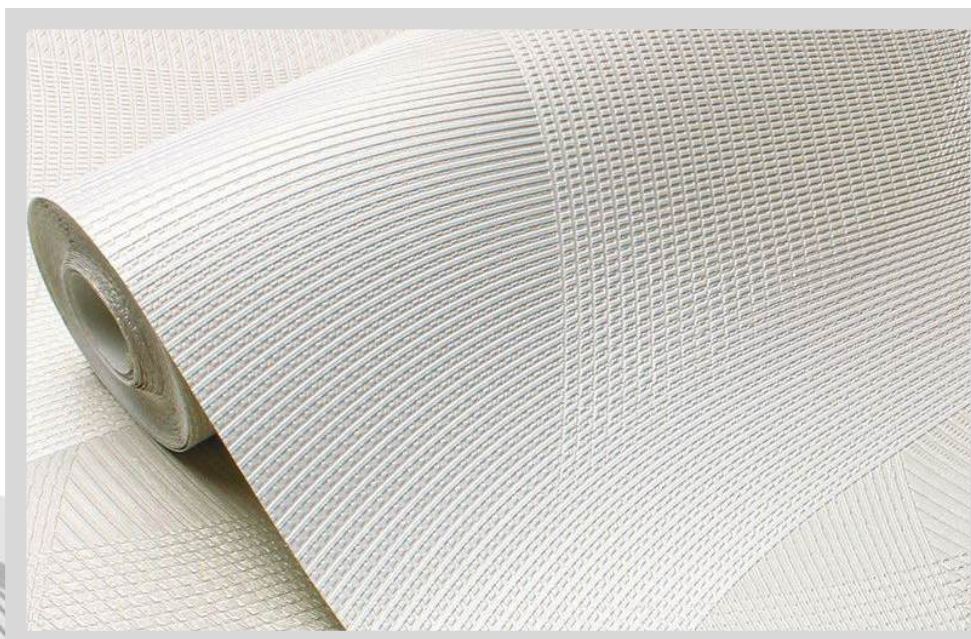
2.5. FABRIC WALLPAPER

Non-woven wallpaper is a product with a non-woven base.



2.6. GLASS WALLPAPER

Glass wallpaper is a material made from quartz sand, glass fiber, dolomite, soda, and other natural materials.



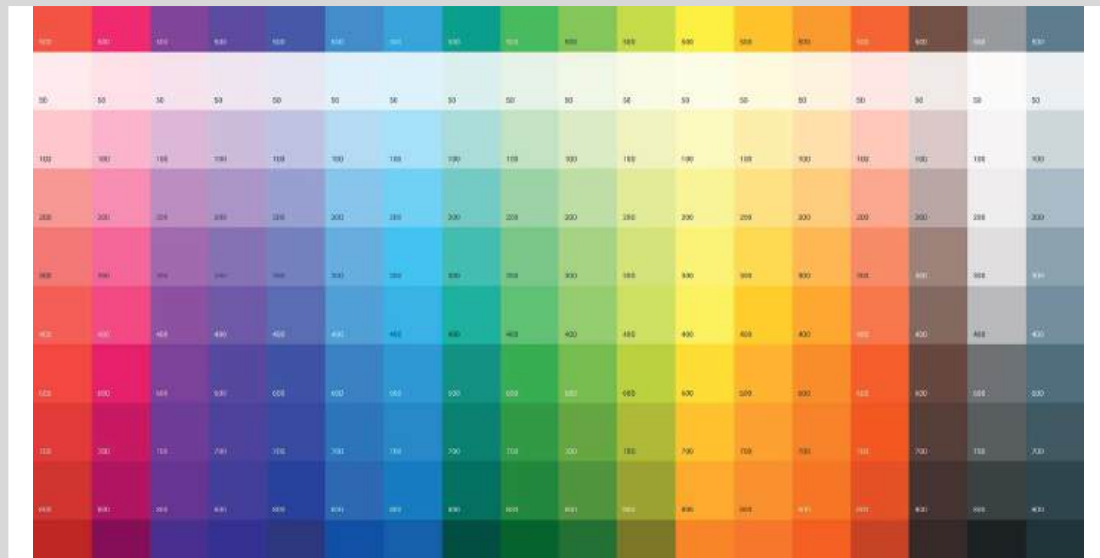
2.7. PHOTO WALLPAPER

Photo wallpaper is a canvas with realistic, high-quality images. Images of nature and animals, fairy tales, and cityscapes are very popular.



3. PAINTS

Paint is a pigmented liquid, dilutable or mastic composition (e.g., bitumen) that hardens into a durable film after being applied to a substrate in a thin layer. It is most often used to protect, color, and texturize the surface of an object. Paint can be manufactured or purchased in a wide range of colors and types.

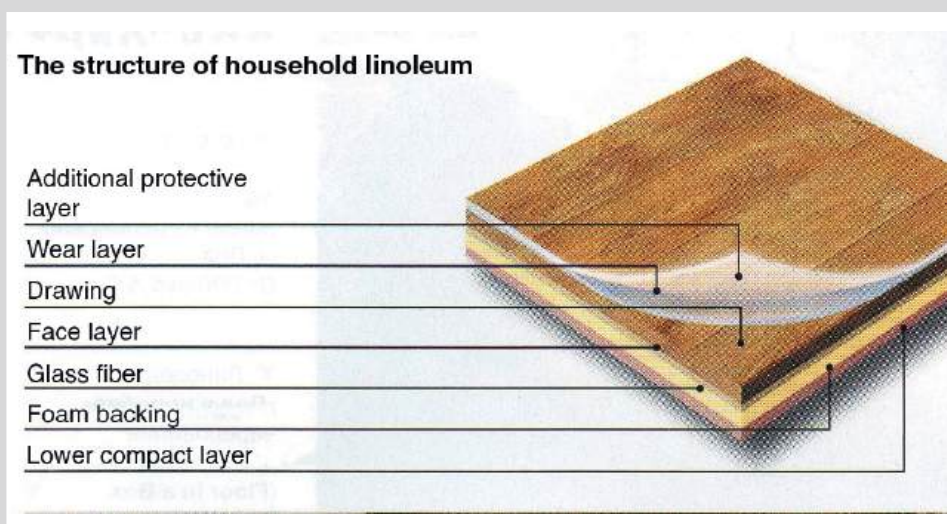


4. HOUSEHOLD LINOLEUM

Due to its good wear resistance and low price, household linoleum is currently the most popular type of linoleum. However, it can only be used in areas with low traffic, such as residential houses and apartments, as it is not particularly wear-resistant.

4.1. SEMI-COMMERCIAL LINOLEUM

This type of flooring is a mixture of PVC with various fillers, created specifically for rooms with low traffic.

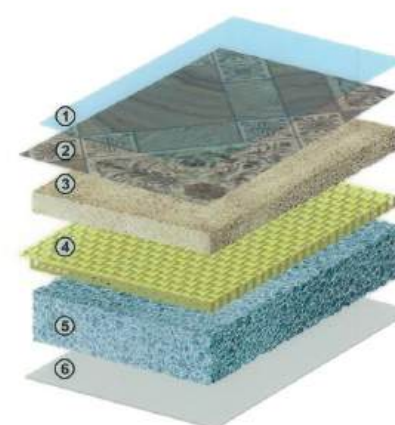


4.2. COMMERCIAL LINOLEUM

Commercial linoleum is linoleum intended for use in public spaces, light industrial facilities, and public transport.



COATING STRUCTURE:



1. Protective layer
2. Pattern
3. Face layer
4. Glass fiber mesh
5. Foam base
6. Back printing

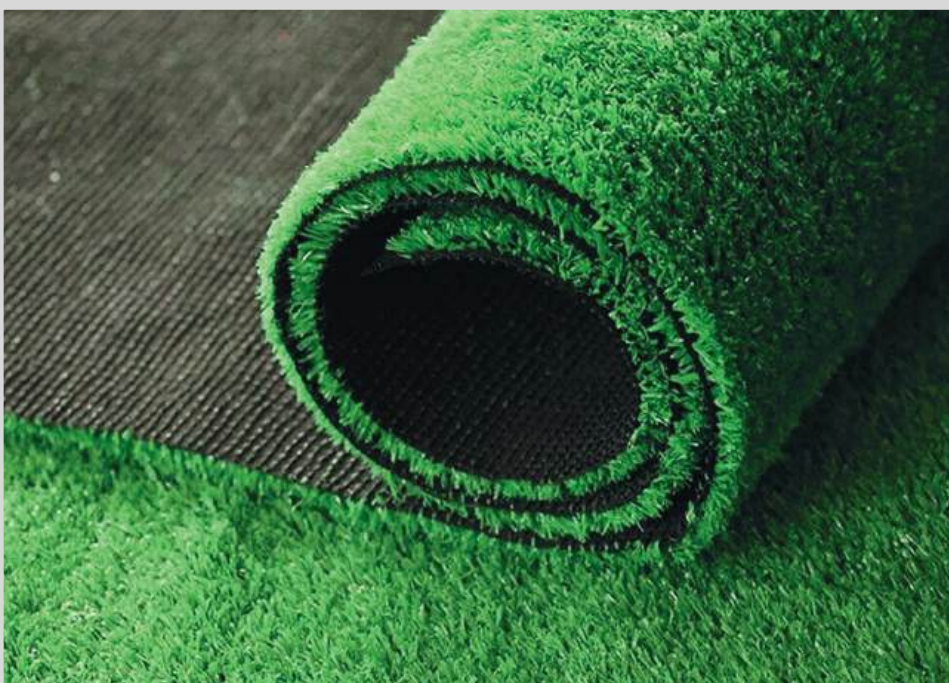
5. LAMINATE

Laminate is a floor covering made of wood fiber or monostructural wood panels with a thermosetting polymer coating.



6. ARTIFICIAL LANDSCAPE GRASS ROLLS

The main purpose is decoration. Manufacturers produce modifications of various textures and shades, which allows you to arrange the landscape in strict accordance with the requirements.

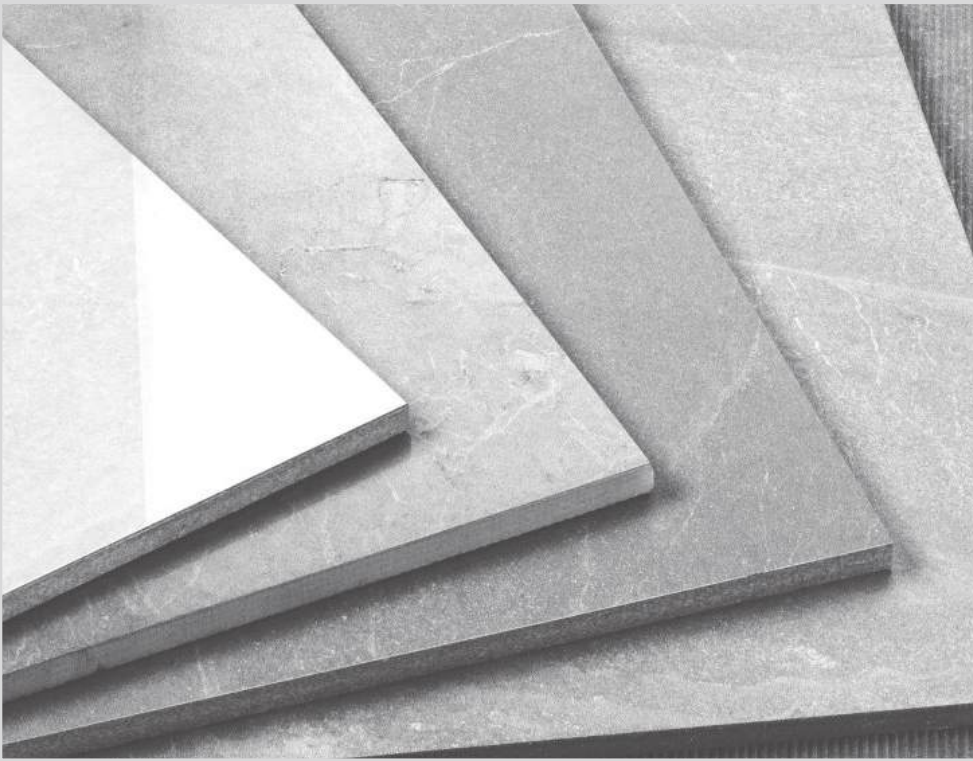


7. CERAMIC TILES

Ceramic tiles are available for walls and floors, and porcelain stoneware is a universal material.



7.1. PORCELAIN STONEWARE

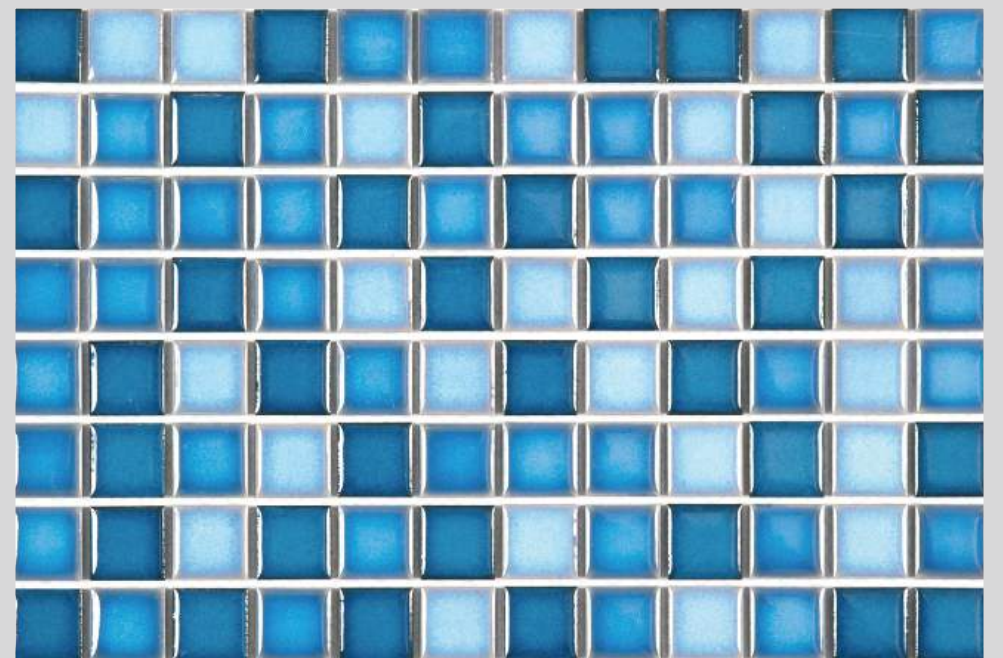


7.2. CLINKER

These tiles are made from shale clay using an extrusion process and fired at high temperatures.

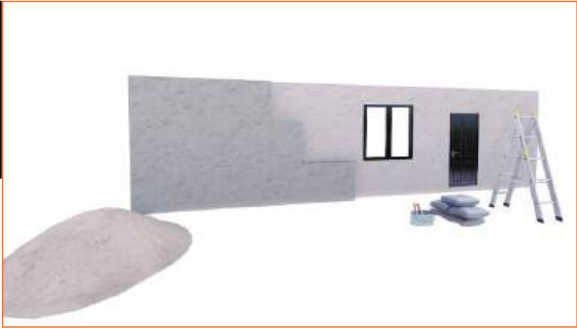


7.3. CERAMIC MOSAIC



GENERAL CONSTRUCTION OF EXTERIOR FINISHING

Plaster 1



Siding 6



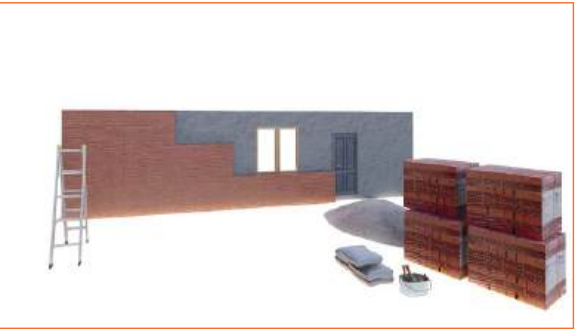
Paints 2



Thermal panels 7



Brick facing 3



Fiber cement panels 8



Stone natural 4



Facade decor 9



1. MINERAL PLASTER

Mineral plaster is a cement-based building mixture, as its binding agent is high-quality Portland cement and lime. It also contains various mineral fillers, such as granite, quartz, or marble chips. This combination of components results in a very reliable and high-quality building material that is ideal for both interior and exterior finishing of buildings.



2. SILICONE PAINT

Silicone resin dispersions act as the binding agent.



3. BRICK CLADDING

One of the most popular options for facade finishing is facing brick. This material also has its own varieties. Thus, buyers can choose from silicate, hyperpressed, clinker, and ceramic bricks.



4. NATURAL STONE

Natural stone can confidently be considered one of the oldest building materials. People have used it extensively to build house foundations and decorate facades. Today, natural stone is often used to clad the walls and basements of buildings.



5. PORCELAIN STONEWARE

Porcelain stoneware for facades is a win-win option. Porcelain stoneware tiles are available in a wide range of colors, patterns, and formats. Facade porcelain stoneware tiles can be indistinguishable from natural stone, wood, concrete, or even Steel.



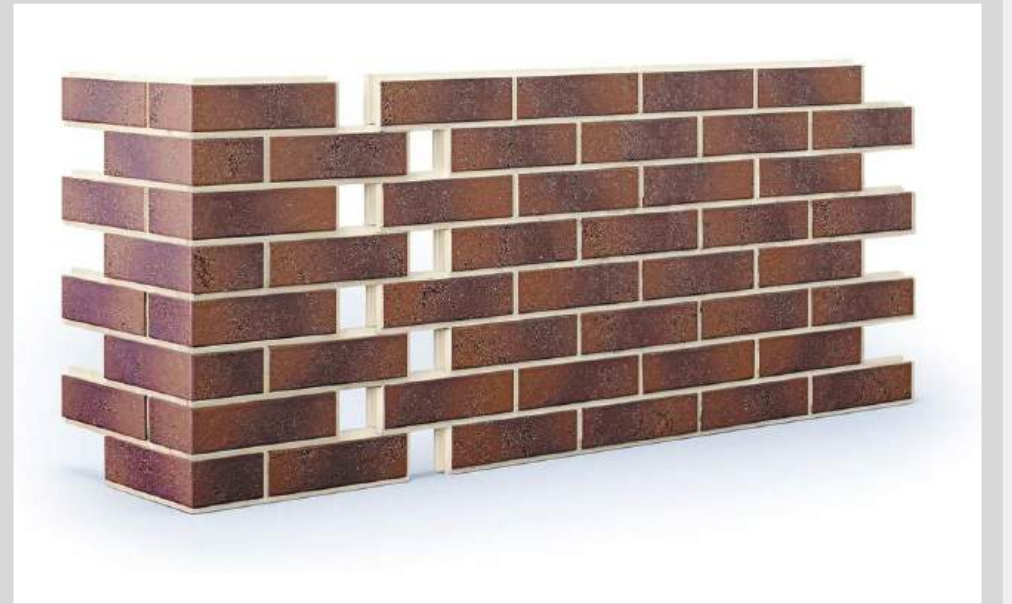
6. STEEL SIDING

These are profiled panels made of galvanized steel sheet covered with a special protective decorative layer.



7. THERMAL PANELS

Thermal panels are composite panels consisting of an insulating layer, a foil film, and a decorative outer layer.



8. FIBER CEMENT PANELS

Fiber siding or fiber cement panels are exterior composite cladding materials. These sheets are based on cement reinforced with fiber reinforcement with mineral or cellulose additives. They are installed using ventilated facade technology, on top of the lathing. They can be installed on a Steel or wooden frame, depending on the type of system chosen.



9. FACADE DECOR

Fibersiding or fiber cement panels are an exterior composite cladding material. These sheets are based on cement reinforced with fiber reinforcement with mineral or cellulose additives.



GENERAL CONSTRUCTION
OF LANDSCAPE DESIGN

- Drainage systems 1
- Lighting 2
- Decorative walls and bridges 3
- Paths and walkways 4
- Greening 5
- Architecture 6
- Streams, fountains, waterfalls, ponds. 7



1. DRAINAGE SYSTEMS

A drainage system in landscaping is a set of measures and infrastructure elements aimed at removing excess water from the surface of the site, maintaining optimal soil moisture levels, and preventing water stagnation.



2. LIGHTING

Landscape lighting is divided into the following types: general, working, security, emergency, marking, and decorative.



3. DECORATIVE WALLS AND BRIDGES

Retaining walls are structures or constructions that counteract lateral soil pressure and prevent soil from sliding, reinforce slopes, embankments, depressions, and bulges.



4. PATHS AND WALKWAYS

Landscape paths serve two main purposes. They make it easy to move around the property. They are a decorative finishing touch to the design of the site.



5. FLOWER GARDEN

A flower garden is an outdoor area planted with flowers, shrubs, and small trees. Experienced landscape designers and gardeners cannot imagine the area around a house without bright colors and carefully plan the landscaping of the garden, taking into account the variety of plants.

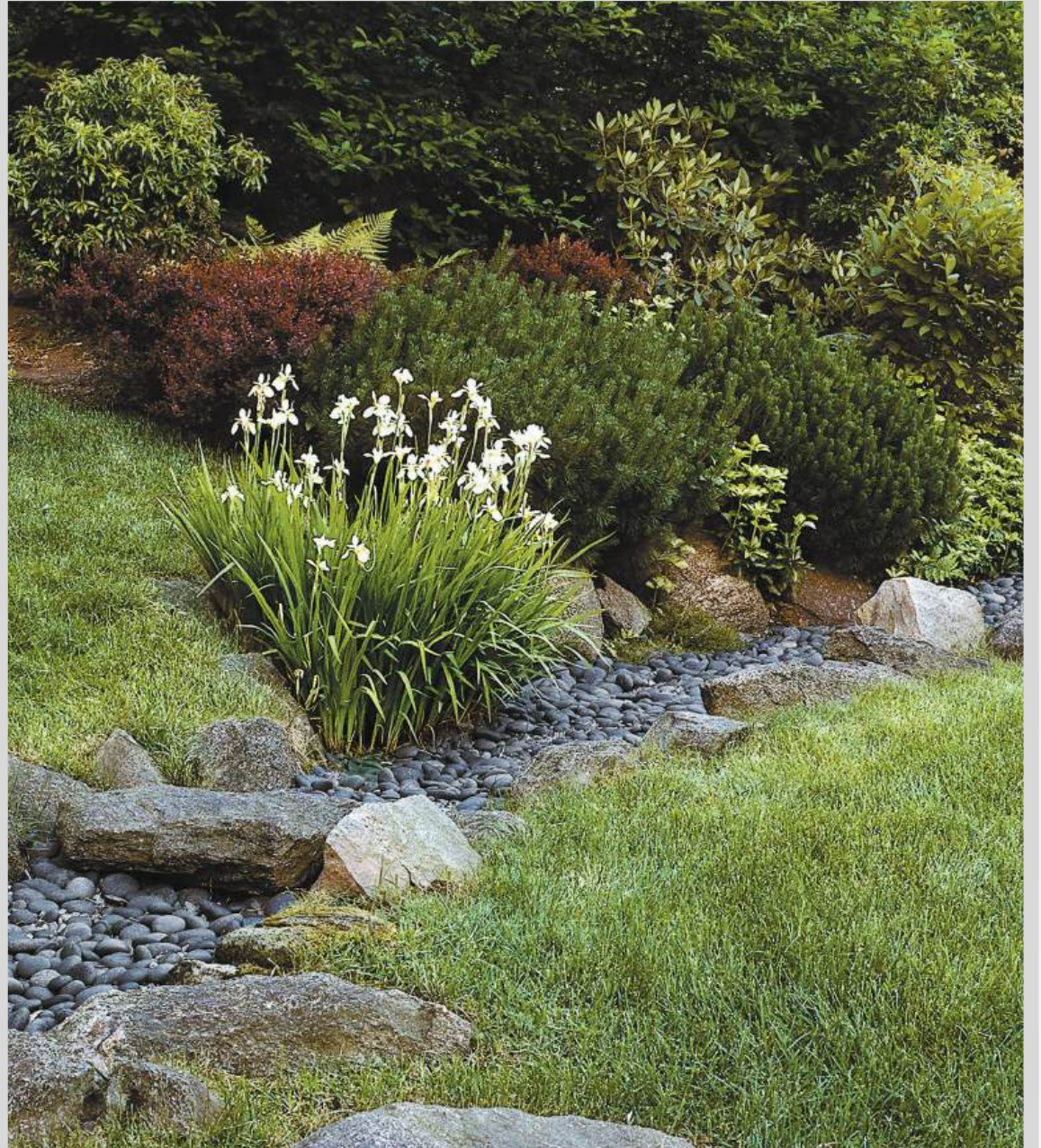
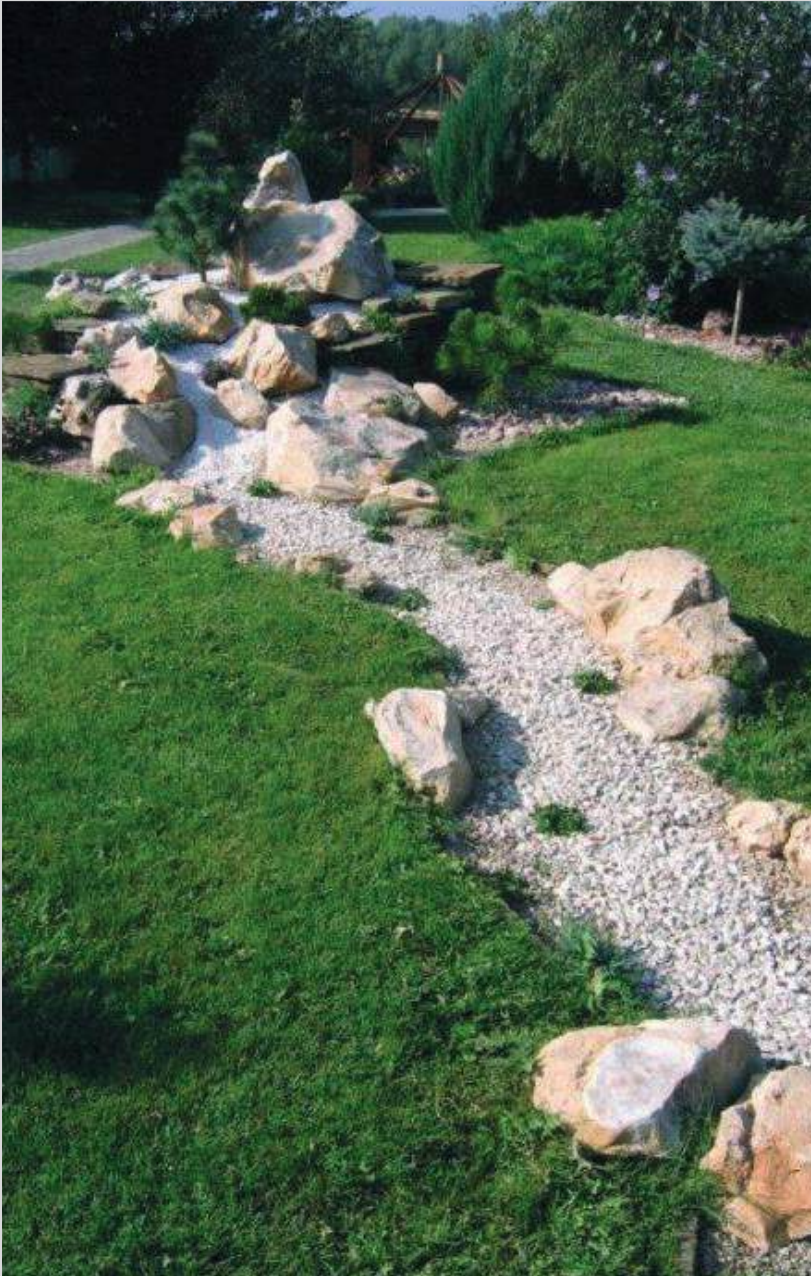


6. SMALL ARCHITECTURAL FORMS

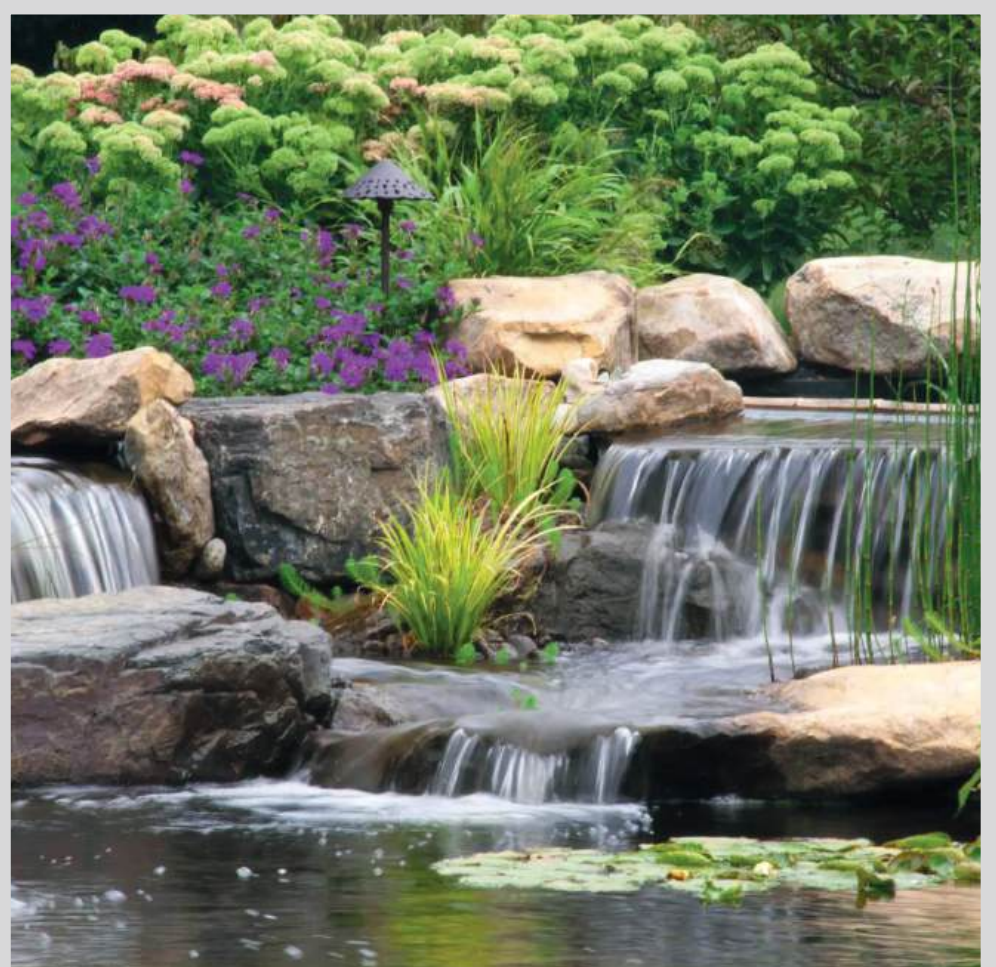
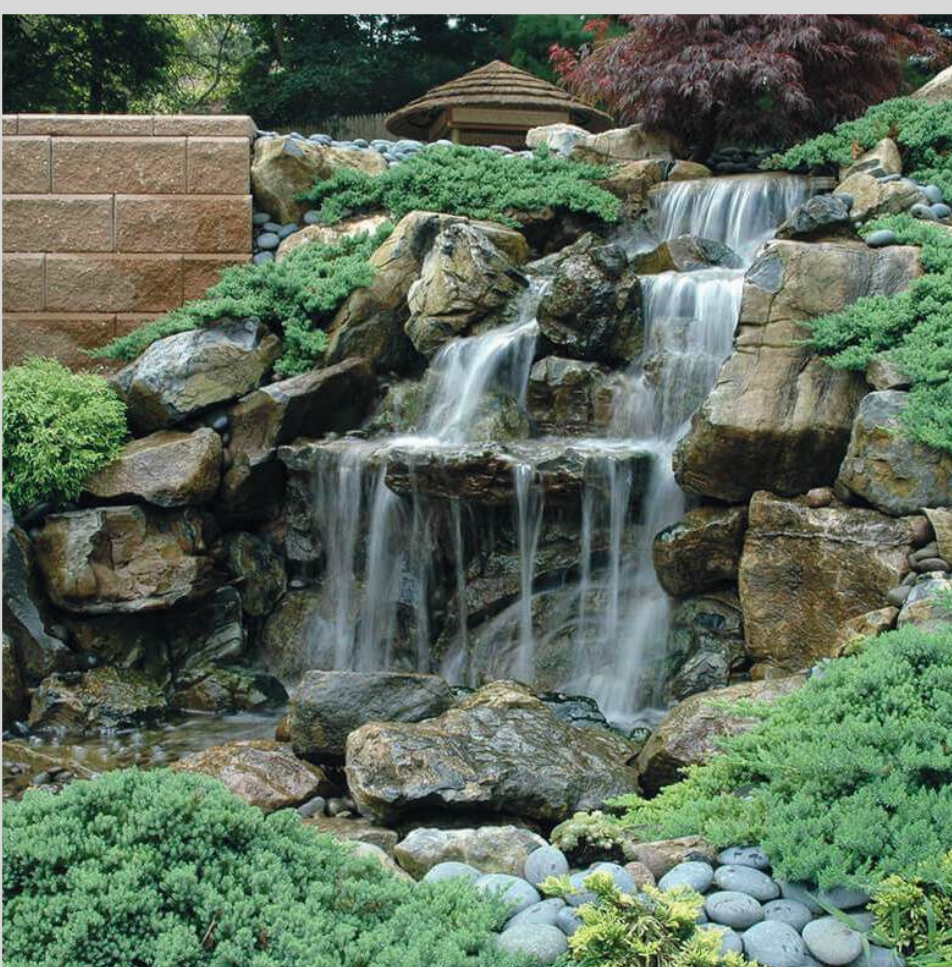


7. DRY STREAM

A dry stream in landscape design is an element that helps to clearly distinguish different functional areas and mark the center of the garden.



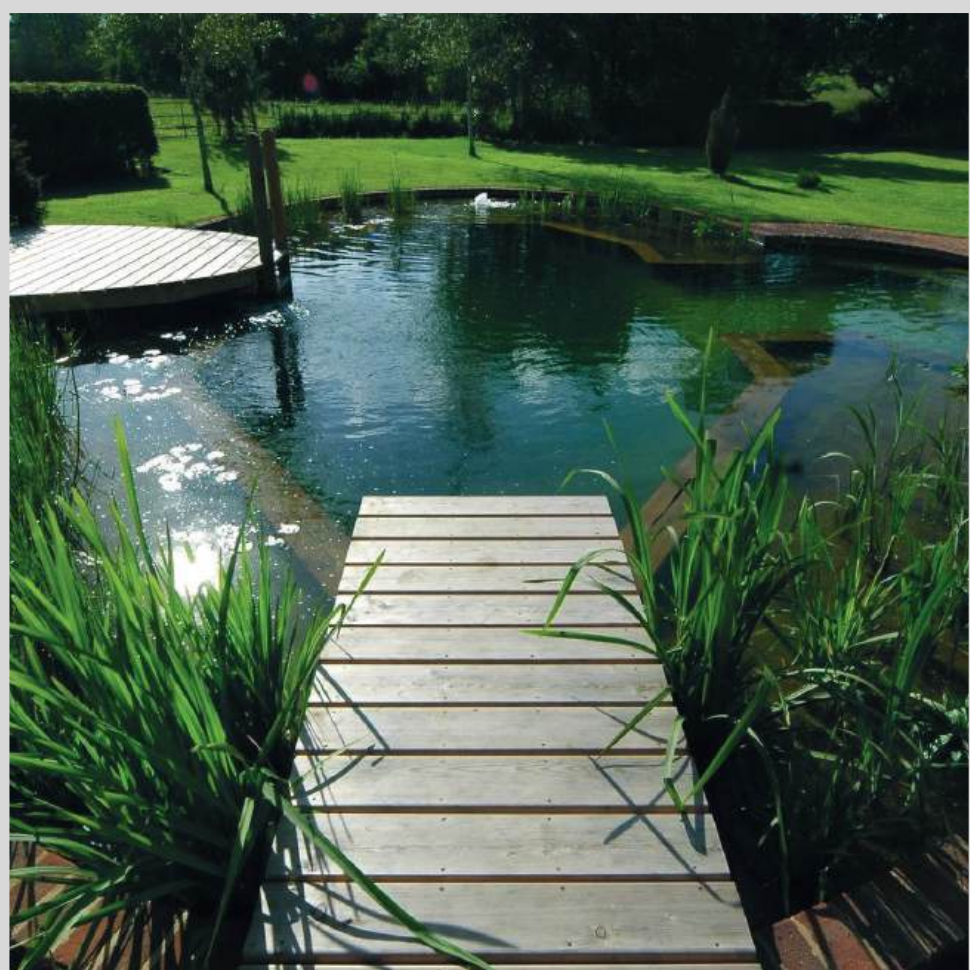
7.1. WATERFALLS



7.2. FOUNTAINS



7.4. PONDS



GENERAL CONSTRUCTION
WINTER GARDEN



WINTER GARDEN

A winter garden is a complex specialized engineering structure designed primarily to create and maintain optimal conditions for various plants. A winter garden can also be a wonderful comfort zone for both plants and people—a “green living room” where you can relax and unwind.

Types of winter gardens:

residential winter garden;
winter garden — greenhouse;
buffer winter garden.

1. RESIDENTIAL WINTER GARDEN



A flower garden is an outdoor area where plants such as flowers, shrubs, and small trees are planted. Experienced landscape designers and gardeners cannot imagine the area around a house without bright colors and carefully plan the landscaping of the garden, taking into account the variety of plants.

2. CONSERVATORY



3. BUFFER GARDEN



4. CONSTRUCTION OF A WINTER GARDEN



ЗИМНИЕ САДЫ И ZIP СИСТЕМЫ



The main task of sun protection systems for winter gardens and ZIP systems is to create an optimal microclimate in the room. The ZIP system is based on a system of roller blinds with electric drive. A distinctive feature of this system is the presence of a ZIP tape, which works on the principle of a zipper and is located on the sides of the fabric. When the blind is lowered, the zipper fits tightly into the side guides, eliminating any gaps or backlash. The ZIP system is an original system with functional properties such as protection from adverse weather conditions and insects, as well as the ability to control the system using an electric motor.

GENERAL CONSTRUCTION,
LANDSCAPING

- Spa area

1
- Barbecue area

2
- Pools

3
- Sports grounds

4



1. BAPTISMAL FONT



2. BARBECUE AREA

The barbecue area is a specially designated place for cooking food using heat treatment.



3. SWIMMING POOLS

A swimming pool is an artificial body of water specially constructed for swimming, bathing, or various activities.



4. SPORTS GROUNDS

Sports grounds are an important part of a healthy lifestyle and active leisure.





PLANNING AND DESIGN

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GENERAL CONSTRUCTION

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ENGINEERING

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GAS SUPPLY

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DIESEL POWER SUPPLY

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HEAT SUPPLY

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HOT WATER SUPPLY

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COLD WATER SUPPLY

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WATER TREATMENT

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WASTEWATER

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SEWAGE SYSTEM

ENGINEERING FIELD

- Power supply

1
- Gas supply

2
- Diesel equipment

3
- Heat supply

4
- Hot water supply

5
- Cold water supply

6
- Heating

7



- Sewerage

13
- Water drainage

12
- Water treatment

11
- Fire protection systems

10
- Refrigeration

9
- Ventilation

8

ENGINEERING OF POWER SUPPLY

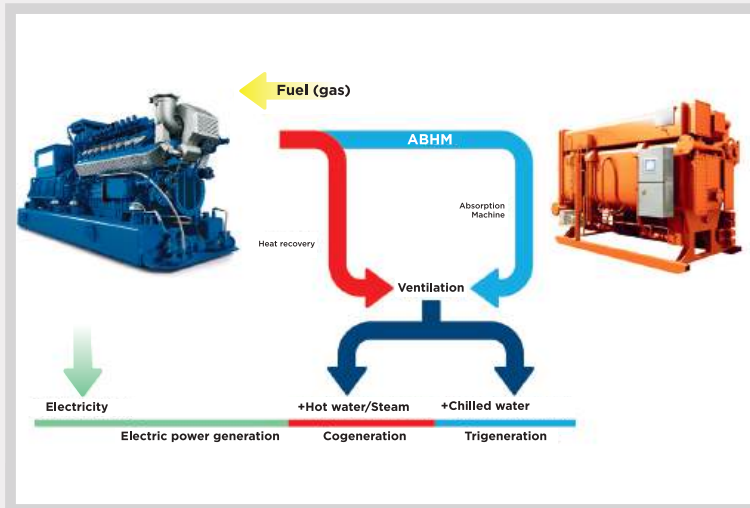
- Trigeneration1
- Cogeneration2
- Wind turbines3
- Solar modules, generators4
- Battery rooms with silent power supply system5
- Transformers6
- Generators7
- High-voltage power lines8



- Control panels9
- Electrical equipment, electrical installation products10

TRIGENERATION SYSTEMS

Trigeneration is the simultaneous generation of three types of energy: electricity, heat, ventilation, and cooling. Trigeneration is a process in which part of the thermal energy produced by a gas piston unit is used to generate cooling, which is used for the technological needs of the enterprise and for air conditioning.



KU SERIES COGENERATION UNITS

A cogeneration plant uses a primary energy source — gas — to produce two forms of energy: heat and electricity. The main advantage of a cogeneration power plant over conventional power plants is that energy conversion is more efficient. In other words, a cogeneration plant allows the use of heat that is normally lost. Fuel consumption is significantly reduced.



POWER PLANTS FROM 8.8 KW TO 2500 KW

Diesel and gas generator sets are designed for use as the main source of electricity when centralized power supply is unavailable or as emergency power supply equipment in organizations that require a constant, uninterrupted source of electricity.



POWER LINES

A power line is an extended structure consisting of wires, cables, supports, insulators, and auxiliary devices. Power lines are designed to transmit or distribute electrical energy from power plants to substations and consumers, as well as to connect adjacent power systems. Depending on their design, power lines are classified as: — overhead lines, whose wires are suspended above the ground or above water; — underground (submarine) power lines, which mainly use power cables.





WIND TURBINE

A wind turbine is a device that converts the kinetic energy of wind flow into mechanical energy of rotor rotation, which is then converted into electrical energy. Wind turbines can be divided into three categories: industrial, commercial, and domestic (for private use). Industrial wind turbines are installed by the government or large energy corporations. They are usually connected to a network, resulting in a wind farm.



SUPER-EFFICIENT SPHERICAL SOLAR CELLS

In diffused light, a spherical photovoltaic cell generated approximately 60% more energy than a flat one. The sphere consists of monocrystalline silicon photovoltaic cells, which are the most common in the modern solar energy industry. Scientists chose them deliberately because they wanted to simplify and reduce the cost of the manufacturing process as much as possible.



V3SOLAR - ROTATING SOLAR BATTERIES

V3Solar - rotating solar batteries are 20 times more efficient than flat ones. The most common type of solar panel is the flat panel, and although there are mechanisms that tilt them at the right angle to track the sun's movement, there are certain limitations associated with significantly increasing the efficiency of this basic design.



TESLA SOLAR PANELS

Tesla solar panels are designed to be highly efficient and provide maximum solar energy production year-round, even on roofs with complex angles. Your integrated system, powered by the Tesla Solar Inverter, is safe and reliable.



ELECTRICAL PANELS

The electricity that powers residential buildings, public buildings, and industrial enterprises must be supplied to the facilities in accordance with all rules and technical regulations. Firstly, electricity must be supplied to appliances without interruption, and secondly, it must be safe and protect the home from short circuits. For these purposes, distribution boards are used — devices designed to receive and distribute electricity to end users.



CABLE, WIRE

Cables are necessary to supply electricity from the source to the equipment, i.e., to connect various devices to the power grid. A wire is a single insulated conductor. The insulation may be covered with a non-Steellic sheath, winding, or braiding. It is also used to connect electrical equipment to a power source.



LOW-VOLTAGE EQUIPMENT

Devices operating in a voltage range not exceeding 1000 volts DC or 1500 volts AC. These include automatic circuit breakers, differential circuit breakers, protective relays, control and measuring instruments, power transformers and voltage stabilizers, low-voltage electric motors and drives.



HOUSEHOLD SOCKETS, SWITCHES WITH AND WITHOUT WI-FI.

Stylish and smart sockets can replace standard sockets and switches in a room. A 2.4 GHz Wi-Fi network is required for full operation. Designed for remote control of 220 V electrical appliances using a smartphone with an app. Manual control via a button on the body is also provided. The app menu displays a graphical indication of the power on/off status. There is also an LED indicator on the body to determine the status of the socket or switch.

ENGINEERING FIELD OF GAS SUPPLY

- Central gas supply for a private house

1
- Autonomous gas supply system

2
- Gas regulator station

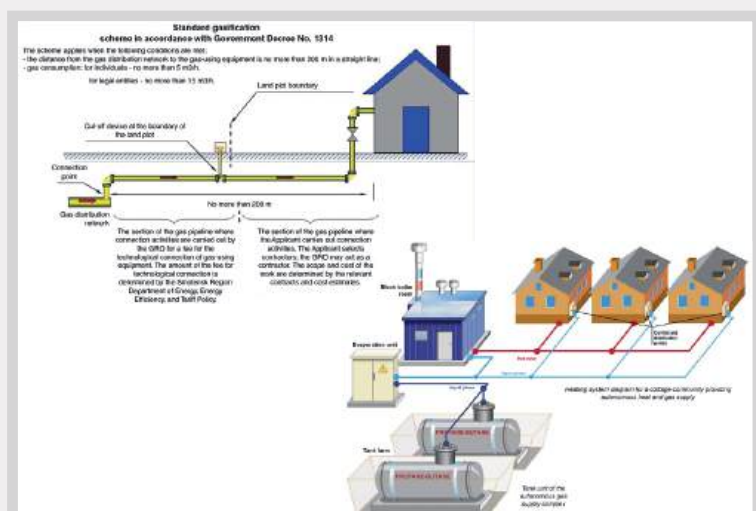
3
- Reduced gas evaporator

4
- Carbon monoxide (CO) and methane gas alarm (detector)

5
- Ammonia and carbon dioxide concentration sensor.

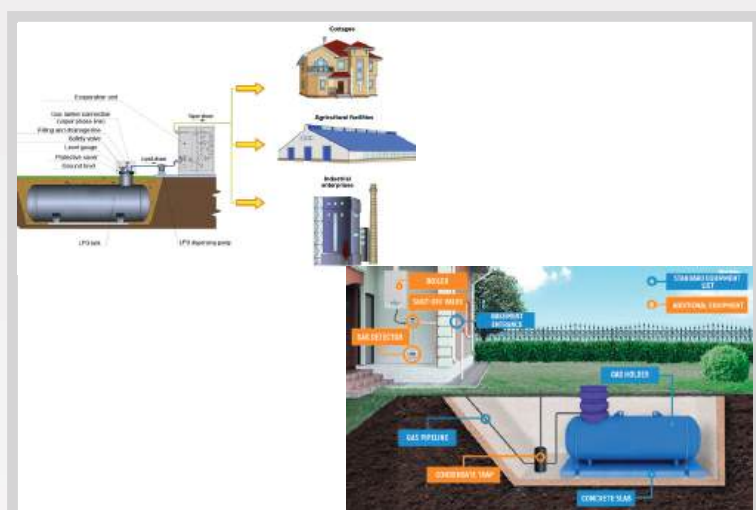
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CENTRAL GAS SUPPLY FOR A PRIVATE HOUSE

“Connection point” - the point of connection between the contractor’s gas distribution network and the gas consumption network of the capital construction project; ‘actual connection’ - a set of technical measures ensuring the physical connection (contact) of the contractor’s facilities and the applicant’s facilities with the supply of gas to the applicant’s facilities.



AUTONOMOUS GAS SUPPLY SYSTEM

An autonomous gas supply system is a completely independent fuel supply system that uses liquefied hydrocarbon gas as fuel. When using it, the consumer has the opportunity to be completely independent from central communications - heating, gas supply, hot water supply, and even electricity supply.



GAS REGULATION POINT

Gas regulation points (GRPs) are a set of technological equipment and devices designed to reduce the inlet gas pressure to a specified level and maintain it at the outlet regardless of the gas flow rate.



LIQUEFIED GAS EVAPORATOR

The liquid phase of LPG from the tank enters the heat exchanger, which is heated by electric heaters through an intermediate heat transfer fluid — antifreeze with an anti-corrosion additive. The liquid phase evaporates in the heat exchanger. The vapors exit the gas chamber through a system that prevents the liquid phase from entering the outlet tract, which has a float valve that operates without electricity or pilot air. The protection system is activated when the gas consumption of the equipment exceeds the evaporator capacity or when the electric heaters fail and the heat transfer fluid stops heating.

ENGINEERING OF DIESEL EQUIPMENT

- Boiler

1
- Modular diesel boiler room

2
- Diesel generator

3
- Fuel capacity for iesel engines

4
- Fuel supply system

5
- Universal automatic control unit

6
- Plastic tanks

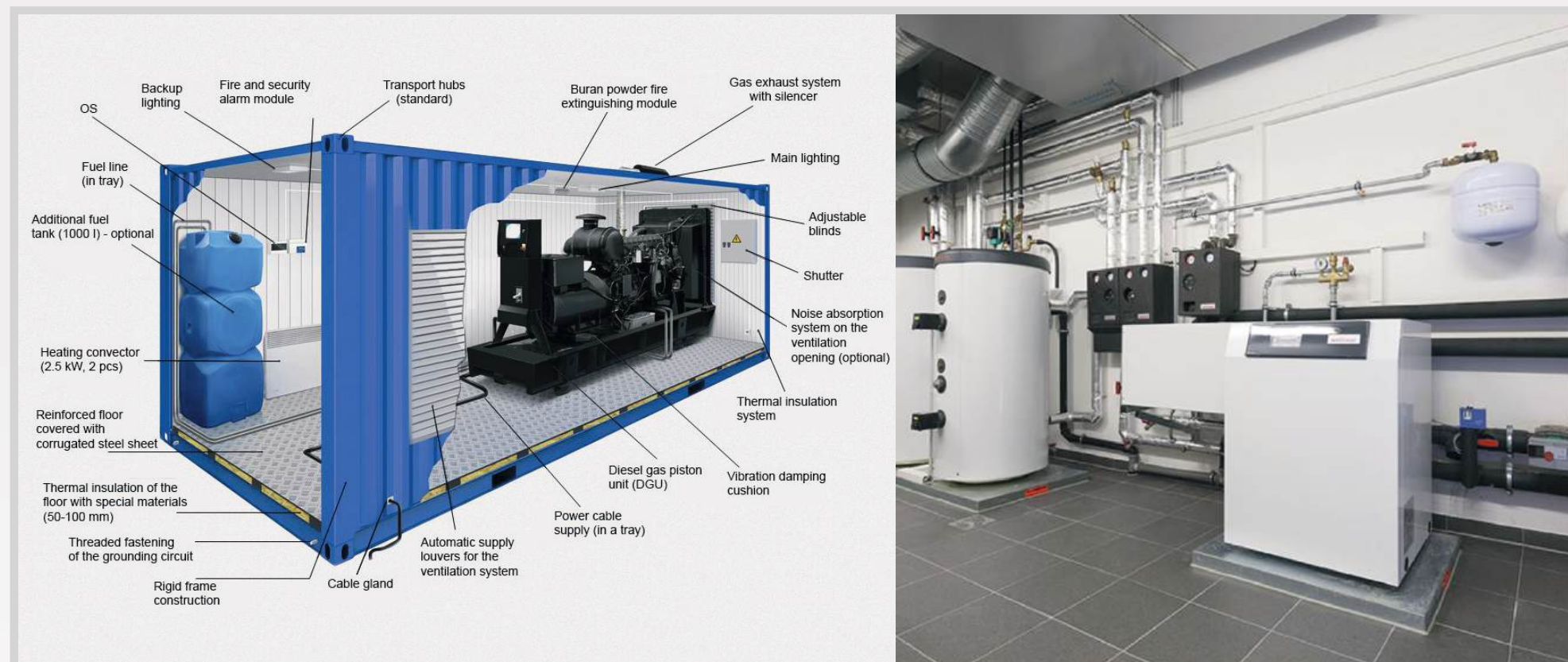
7
- Steel tanks

8



MODULAR DIESEL BOILER ROOM

In the absence of gasification in the boiler room area, a modular diesel boiler room is the optimal solution for heat supply. When using diesel fuel, the boiler room can have a high degree of automation and high efficiency. And the use of modern equipment allows for high environmental friendliness of the equipment.



DIESEL BOILER

A diesel boiler is a device that burns diesel fuel. The heat released heats water, which circulates through the heating system and heats the room. A diesel boiler includes: a diesel burner, an automatic control system, a heat exchanger, a fuel filter, and a pump. Diesel boilers are available in single-circuit and double-circuit versions with an indirect heating boiler. Single-circuit boilers are designed only for heating rooms. Double-circuit boilers provide residents with hot water.



FUEL SUPPLY SYSTEM

In order to organize the simplest, most convenient, and most efficient process of working with diesel fuel, a fuel supply and further filtration system has been developed and provided. This system, with the help of auxiliary equipment and devices, simplifies the procedure and minimizes human involvement in the process.



UNIVERSAL AUTOMATION CONTROL UNIT

Simplified user interaction with the boiler, which increases the comfort of operation. Main functions of the device: Switching on and off. The user does not have to interact with shut-off mechanisms or other mechanical components of the boiler. Automation of control. Air flow control is especially important for gas models, where it affects the heating of the coolant. Temperature setting. For boilers with flexible settings, a range of indicators can be set to increase comfort. Air condition monitoring. For this purpose, the device is equipped with temperature sensors that continuously measure the temperature near the boiler. User notification. Some devices are equipped with Wi-Fi or SMS communication features.



ENGINEERING FIELD OF HEAT SUPPLY

- Trigeneration

1
- Cogeneration

2
- Gas boiler

3
- Diesel boiler

4
- Solid fuel floor-standing boiler

5
- Electric wall-mounted, floor-standing water heating boiler

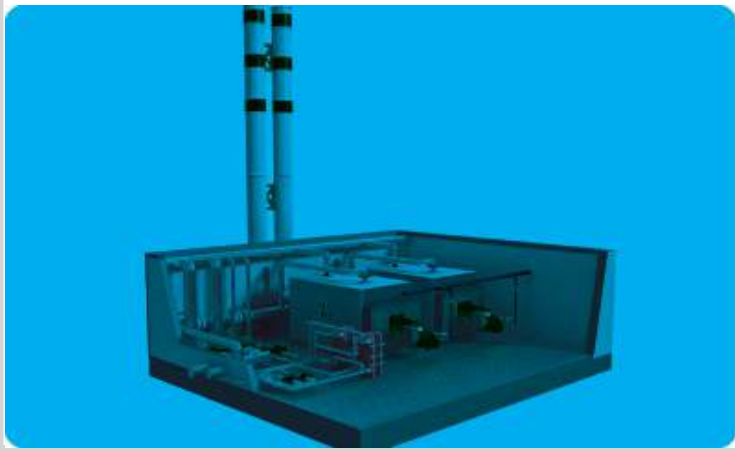
6
- Block-modular gas, diesel boiler room

7



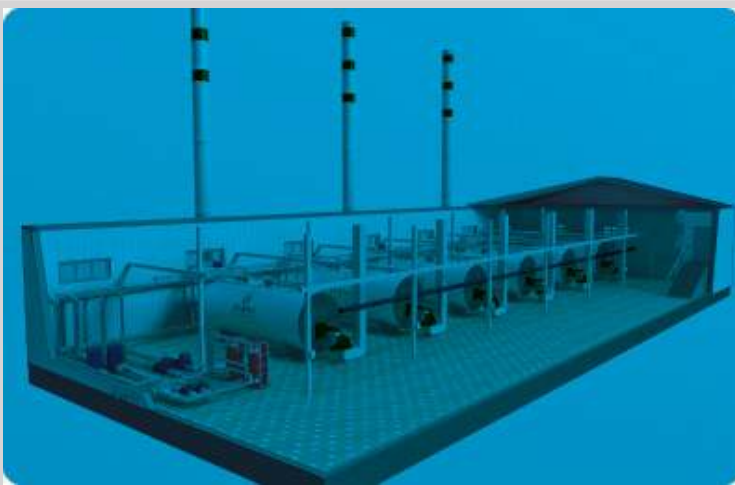
- Heat pump

8



TRANSPORTABLE BOILER ROOMS

Automated transportable modular boiler units are modules with boilers, heat exchangers, pumps, pipelines, automation systems, and water treatment systems installed inside them.



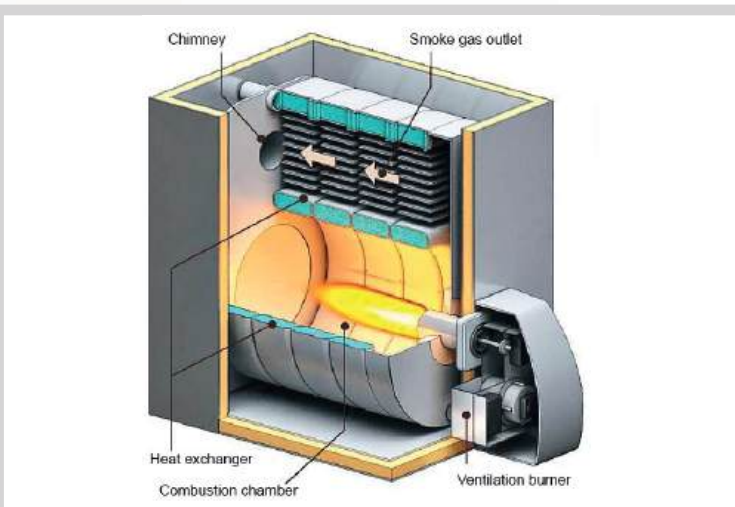
STATIONARY BOILER ROOMS

The boiler room is heated by heat emitted from the process equipment and piping and by heated outside air supplied by a mechanical ventilation system (if necessary).



GAS BOILERS

Depending on the functions performed by the boiler, it can be single-circuit or double-circuit. The former is used only for heating, while the latter replaces a water heater or boiler, i.e., it also heats water for domestic use. Depending on the installation method, gas heating boilers are wall-mounted and floor-standing. Depending on the type of combustion chamber, boilers are open or closed. There are models with natural or forced draft.



LIQUID FUEL BOILERS

One of the significant advantages of a liquid fuel heating boiler is its high efficiency, fuel consumption with virtually no losses, and high power. The performance of these units allows them to heat both compact residential premises and spacious production facilities. High level of automation. The boiler operates for long periods of time without human intervention. Independence from energy sources.

ENGINEERING SOLUTIONS OF HOT WATER SUPPLY

- Gas storage water heater

1
- Indirect heating boiler

2
- Instantaneous gas plate water heater

3
- Electric boilers

4
- Electric water heaters with direct heating element

5
- Automation

6
- Steel pipes for hot and cold water supply

7
- Copper pipes for hot and cold water supply

8
- steel-plastic pipes for hot and cold water supply

9
- Polypropylene pipes for hot and cold water supply

10



DHW WITH STORAGE WATER HEATER (BOILER)

DHW with a storage water heater is a reliable and efficient solution for ensuring constant access to hot water. A boiler is a tank for heating and storing hot water, providing comfort and meeting hot water needs at various points of use.



GAS STORAGE WATER HEATER

A gas storage water heater is a device designed to heat and store hot water using gas as a heat source. This type of water heater has a tank that maintains a certain temperature of hot water ready for use.



HOT WATER SUPPLY WITH INSTANTANEOUS WATER HEATER

Hot water supply with an instantaneous water heater is an advanced solution for providing instant and efficient access to hot water in the home. These innovative systems provide a continuous flow of hot water, minimizing time delays and optimizing energy consumption.



INDIRECT HEATING BOILER

An indirect heating boiler is a device for heating water that does not have its own heat source but uses heat from another source. It consists of two shells, where the inner shell contains the water to be heated, and the outer shell is connected to a heat source. This thermal device allows heat to be transferred efficiently and the water to be heated.

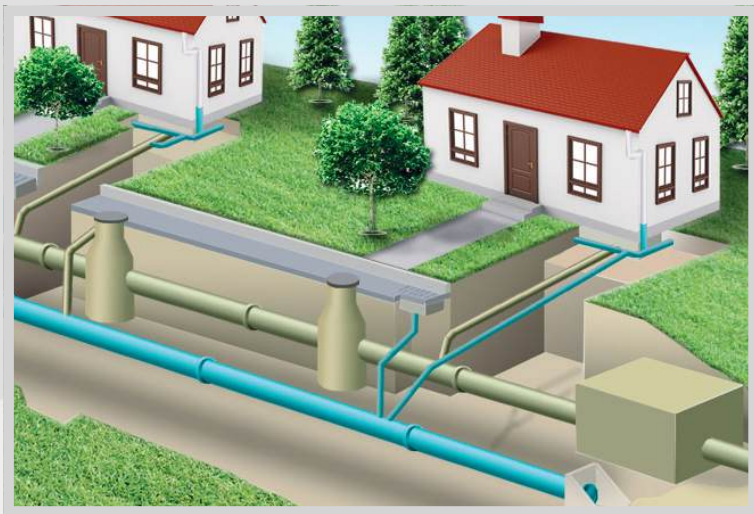


ENGINEERING OF COLD WATER SUPPLY



CENTRALIZED COLD WATER SUPPLY SYSTEM

A centralized system is a water supply system in which water from one or more sources is fed into a common water distribution network or first into one or more reservoirs, and from there into a common network that supplies water to the entire facility served by the system. In this case, all consumers are supplied with water from a single water supply system. Water intake, pumping, and treatment facilities are designed to supply water to all consumers within the system's coverage area and operate according to an agreed schedule.



AUTONOMOUS WATER SUPPLY

Autonomous water supply for a private house allows for the uninterrupted withdrawal of drinking water from an underground source regardless of the condition of the central system. The consumption rates, supply schedule, and conditions of use are determined by the owner.



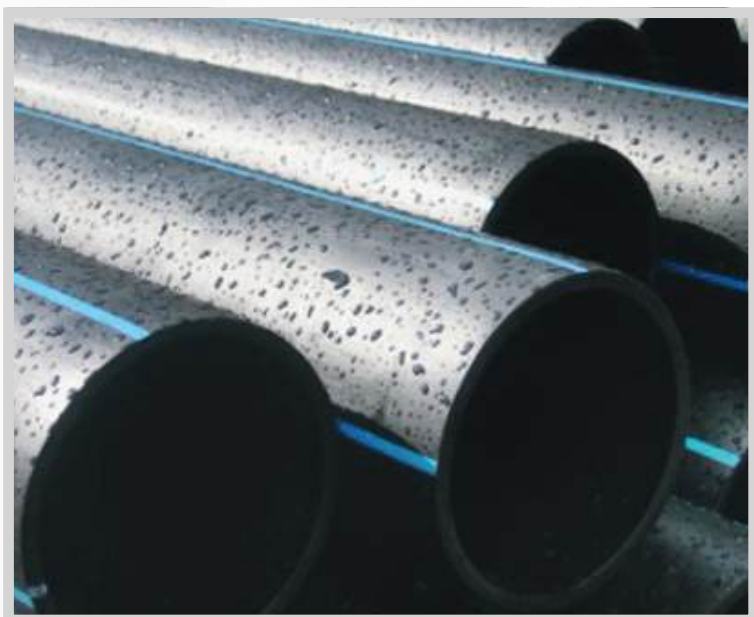
COLD WATER SUPPLY CONTROL CABINET (CWS)

The cold water supply control cabinet (SHU HVS) is part of the cold water supply control system in industrial and residential buildings. In turn, the HVS system can be part of a central heating unit or an individual heating unit (CTP or ITP). The use of cold water supply control cabinets significantly improves the operational and economic characteristics of the cold water supply system of buildings as a whole.



PIPES

Domestic and drinking water pipes are part of the municipal and domestic main pipeline system. It is designed to supply water directly to consumers for domestic and drinking purposes. This is a type of internal water supply system in a house and belongs to the class of cold water supply systems. It is considered the most important part of the main pipeline system, as it provides the population of our large country with a vital resource — clean water.



ENGINEERING OF HEATING

- Warm floors

1
- Circulation pumps

2
- Shut-off valves

3
- Distribution devices

4
- Expansion tanks

5
- Pipelines

6
- Automation units

7



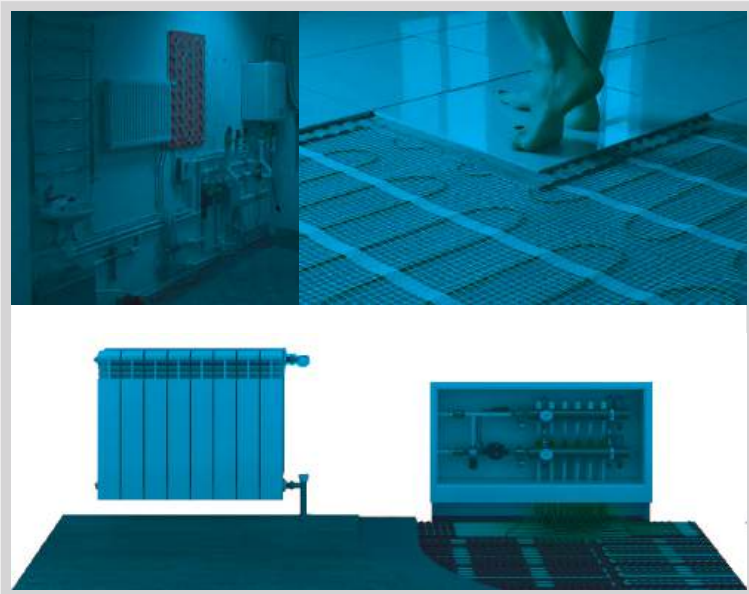
RADIATORS

A heating radiator is a convective-radiative heating device consisting of separate, usually columnar elements—sections—with internal channels through which a heat transfer fluid circulates. Heat from the radiator is transferred by radiation, convection, and thermal conduction.



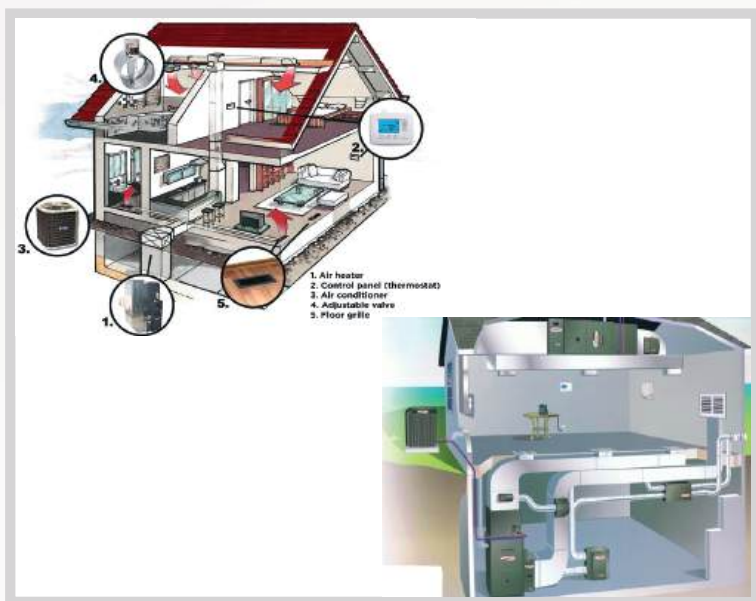
WATER HEATING SYSTEMS

The main part of a water heating system is a boiler (gas, solid fuel, liquid fuel), furnace, or electric heater. There are multi-fuel and universal models that can use different types of fuel, such as gas and diesel. Water circuits can be single-pipe or double-pipe. In double-pipe systems, the heat transfer fluid is supplied to the heating devices through one pipe and returns through another. In this case, the water temperature does not depend on the number of radiators and only decreases slightly as it passes through the pipe, which has virtually no effect on the efficiency of heating. In such systems, water supply can be forced or natural.



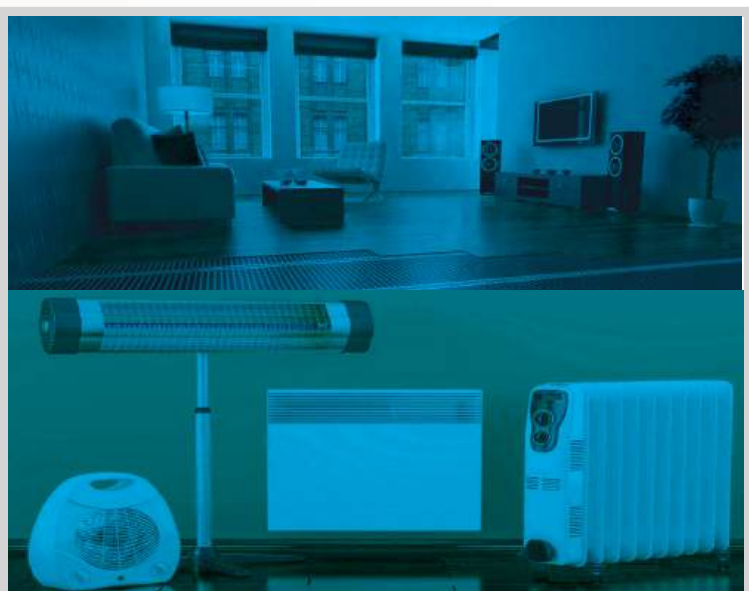
AIR HEATING IN A PRIVATE HOUSE

This type includes gas and electric convectors and various types of stoves. These devices do not have a heat transfer medium, and the air in the room is heated directly from them. These types of heating systems heat the room through air convection. This happens as follows: cold air flows through the louvers and hot plates of the device, heats up, and enters the room. The devices may have a fan that forces the air to circulate.



ELECTRIC HEATING SYSTEMS

Electric boilers are used to heat houses and apartments. Electric heating is a complex of devices designed to heat a room using electricity (electric boilers, underfloor heating, household electric heaters, and other products). The advantage of this method is its accessibility, reliability, and high efficiency.



ENGINEERING SOLUTIONS OF VENTILATION

- Central ventilation unit

1
- Round ventilation ducts

2
- Ventilation box

3
- Ventilator

4
- Flow valve

5
- Recuperator

6
- Extractor hoods

7





SUPPLY VALVE

The supply valve performs an important task in creating comfortable conditions in a closed room—it ensures normal air circulation by supplying a sufficient amount of oxygen.



RECOUPERATOR

The main function of the recuperator is to obtain useful energy from the air removed from the room. This function is supplemented by the condition that the flows must not mix, i.e. the supply air must not be significantly contaminated by the exhaust air. In ventilation and air conditioning systems, this type of energy recovery is relevant in both winter and summer.



KITCHEN EXHAUST

A kitchen exhaust is a device for cleaning the air of smoke, combustion products, vapors, odors, and other unwanted impurities that are generated during the heat treatment of food and accumulate in the kitchen.



SENSOR PANEL CONTROLLERS

A panel controller is a human-machine interface device that combines an operator panel with a programmable logic controller in a single housing. The SPC not only displays data in full, but also archives, transmits, receives commands in accordance with algorithms, and generates control commands to external devices.

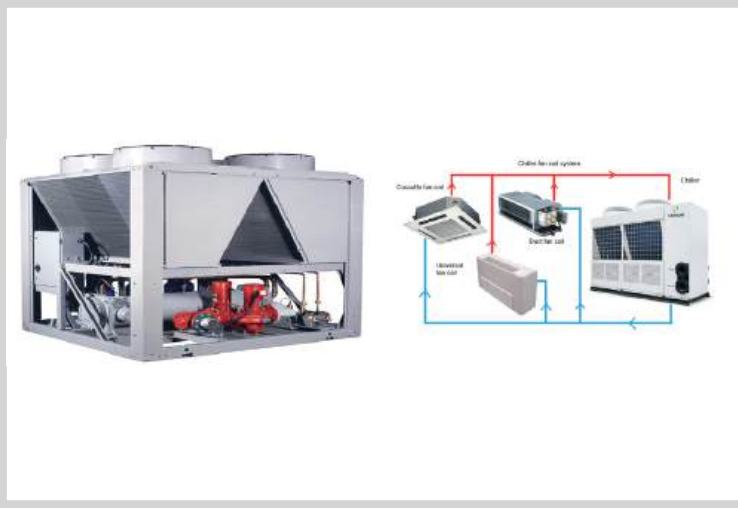
ENGINEERING SOLUTIONS OF COOLING

- Chillers **1**
- Dry cooler **2**
- Absorption chiller **3**
- Split system **4**
- Monitoring and dispatching control system **5**



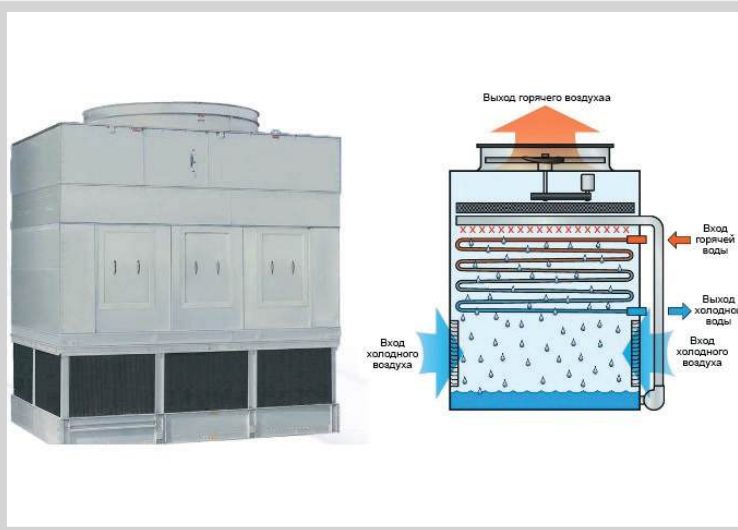
The company's employees are highly qualified specialists in the field of engineering and construction of industrial and commercial refrigeration systems. We offer our customers a wide range of services in the field of engineering and construction of industrial and commercial refrigeration systems.

CHILLERS



A chiller is a refrigeration unit used for air conditioning in industrial-scale indoor spaces. It is capable of maintaining a temperature level that ensures the continuous operation of production equipment. The most widespread type of chiller is the chiller-fan coil system. It owes its popularity to its ability to regulate the microclimate in two separate rooms at once.

WET COOLING TOWER



A cooling tower is a special device designed to cool water with atmospheric air. Industrial cooling towers are the most economical and efficient way to cool large volumes of water and various liquids, as they do not use ammonia, freon, or other substances involved in heat exchange, which require additional electricity.

SPLIT SYSTEMS



Both split systems and air conditioners can be considered synonymous devices, but the range of air conditioner models is much wider and includes mobile or window monoblocks. Once upon a time, bulky window air conditioners were widespread, but they did not provide the desired coolness. The advent of the aesthetically pleasing split system was an innovative breakthrough, and its division into a noisy external unit and a quiet and elegant

internal unit saved space inside the room. Therefore, any split system is an air conditioner, but not every air conditioner is a split system.

MONITORING AND DISPATCH CONTROL SYSTEM



This system combines all refrigeration control systems and presents all information in a summarized, easy-to-understand form. It also allows statistical analysis of operation in the form of tables and graphs.

ENGINEERING OF FIRE SAFETY

- Modular fire extinguishing system

1
- Autonomous fire extinguishing system

2
- Fire cabinet

3
- Fire extinguisher

4
- Fire hose

5
- Fire hydrant

6
- Fire valve (shut-off valve)

7



- Smoke detectors and sensors

8

FIRE SAFETY EQUIPMENT



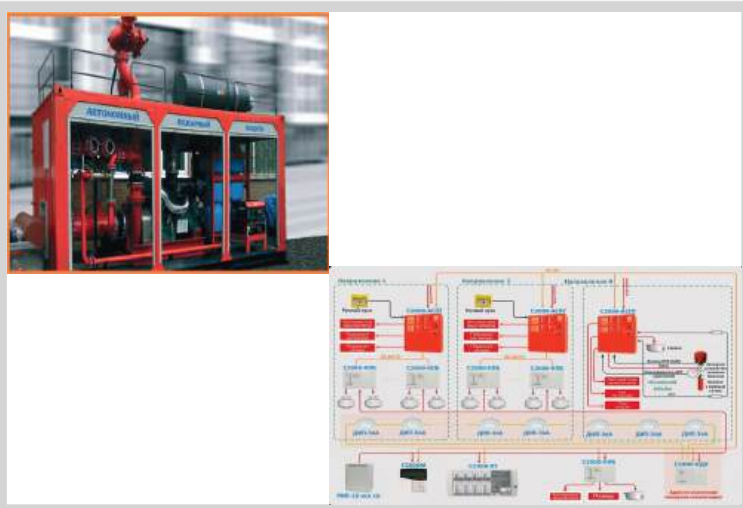
Fire safety equipment is equipment that ensures fire safety and is used to prevent and extinguish fires, as well as to eliminate small or large sources of ignition. Firefighting equipment comes in a wide range and includes: fire extinguishers, fire hydrants, fire nozzles, fire hoses, fire cabinets, fire heads, fire valves, fire pumps, fire shields and stands, and firefighting equipment.

FIRE EXTINGUISHING SYSTEM



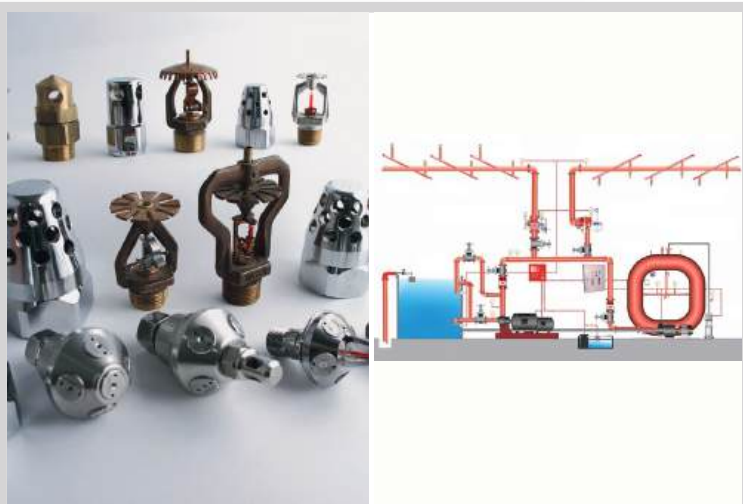
A fire extinguishing system allows you to start extinguishing a fire on your own before the fire brigade arrives, and in many cases, their assistance will not be required at all. The system is supplied with a Eurocube designed for 1,000 liters of fire extinguishing agent. The system can be used almost anywhere: in industrial enterprises and fuel and energy complexes, in warehouse terminals, in summer cottages and cottage settlements.

AUTONOMOUS PULSE FIRE EXTINGUISHING SYSTEM (ASIP)



The autonomous impulse fire extinguishing system (ASIP) is designed for the fastest possible extinguishing of primary fires with high energy by intensive delivery of fire extinguishing agent (water or foam) over long distances. ASIP is a long-range fire extinguishing system that uses a mechanical drive to create combined jets of air-mechanical foam of various dispersions and multiples, including the use of conversion technologies.

SPRINKLER FIRE EXTINGUISHING SYSTEM



A device consisting of a water supply network of pipes with sprinkler heads evenly distributed over the protected area. Water and water solutions with various additives that increase the fire extinguishing efficiency of water or allow foam to be produced can be used as the extinguishing agent in a sprinkler system.

ENGINEERING SOLUTIONS OF WATER TREATMENT

- 1 Removal of mechanical impurities
- 2 Removal of iron and manganese
- 3 Water purification from lime
- 4 Water purification from nitrates
- 5 Hydromagnetic purification system



REMOVAL OF MECHANICAL IMPURITIES

The water treatment system for a private house in this case consists of several stages: the first stage involves placing a layer of granular filler at the bottom of the well (borehole); the next stage involves installing an intake screen to prevent damage to the pump; the main production filter is created from a tank filled with sand; in the subsequent stages of the process, mud traps, disc structures, and specialized cartridges are used.

IRON AND MANGANESE REMOVAL

The scheme for removing iron from well water is developed after determining the form of impurities: organic components are treated with special reagents (ozone, sodium hypochlorite); colloids are agglomerated by coagulation; divalent iron is converted into an insoluble state by oxidation for subsequent retention of particles by a mechanical filter.

HARDNESS AND LIME REMOVAL

A typical water treatment system for a country house requires reliable protection against scale. To solve this problem, the following methods are used: treatment with polyphosphates; transformation of salt impurities with a strong magnetic field; ion exchange; membrane purification.

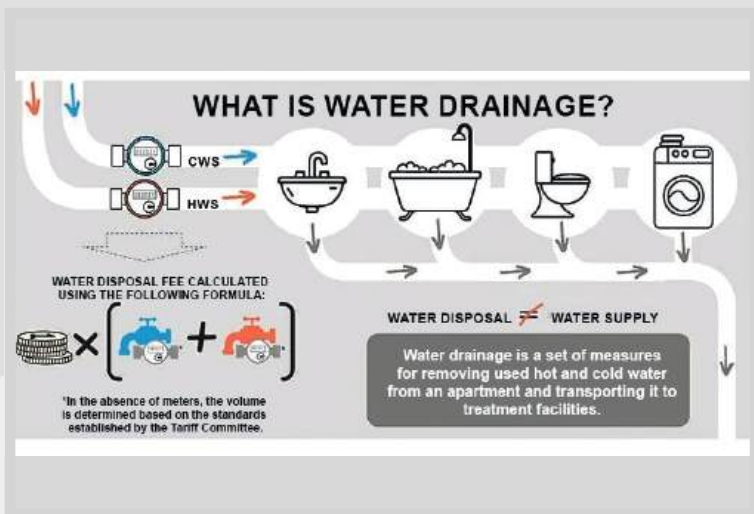
NITRATE REMOVAL

This term refers to salt compounds of nitric acid, which are often used to improve crop yields. These contaminants are present in open water bodies, wells, and sand wells. Experts emphasize the particular danger of the sequential conversion of fertilizers in this category into nitrites and nitrosamines. The increased toxicity of chemical compounds can significantly worsen health, even leading to death. According to SanPin standards, the maximum concentration of nitrates is limited to 45 mg per liter.

ENGINEERING SOLUTIONS OF DRAINAGE SYSTEM

- Central drainage system **1**
- Closed storm drainage system **2**
- Open/external storm drainage system **3**





CENTRAL SEWAGE SYSTEM

A centralized sewage system is a complex of engineering structures in populated areas for the collection, treatment, and discharge of wastewater into water bodies and the treatment of wastewater sludge. Street sewerage network is a network of pipelines laid along streets, driveways, alleys, embankments, and other thoroughfares of a populated area, including the length of collecting collectors, but excluding main collectors.



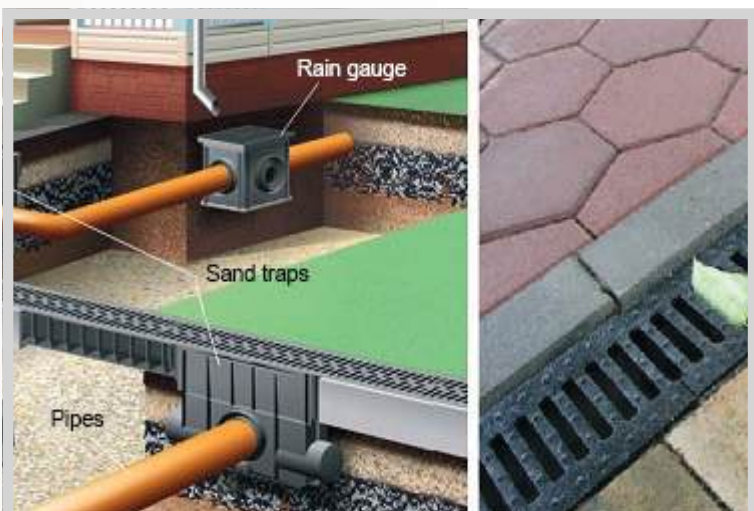
CLOSED STORM WATER DRAINAGE SYSTEM

A closed storm sewer system is a system of underground engineering communications designed to drain atmospheric precipitation from the roofs of buildings, hard-surfaced areas, or flood-prone areas. The installation of a closed storm sewer system usually requires preliminary planning and calculations and is accompanied by a series of labor-intensive earthworks.



OPEN/OUTDOOR STORM DRAINAGE SYSTEM

This type of storm drain consists of drainage gutters in the pavement, through which water flows to a specific location or is discharged into a garden/vegetable garden. This type of storm drain consists of trays and channels that are not buried in the ground. It is also necessary to install rainwater collection and collector wells, in which the liquid settles before entering the centralized sewerage system.



MIXED

Part of the storm sewer is built in the ground, and part is above ground. This is the optimal option in terms of cost, appearance, and the amount of resources required. What you definitely need to do is divert water away from the house. This can be done by installing gutters in the driveway and draining the water onto the lawn.

ENGINEERING OF SEWERAGE

Central
sewerage
system

1

Tanks/septic tanks

2

Sewerage system

3





REINFORCED CONCRETE RINGS

These are installed using heavy construction equipment. The use of well rings significantly increases the strength of the structure and eliminates the possibility of wall collapse under prolonged exposure to aggressive wastewater.



CENTRALIZED MUNICIPAL SEWERAGE SYSTEM.

A complex of engineering structures in settlements for the collection, treatment, and discharge of wastewater into water bodies and the treatment of wastewater sludge. Centralized municipal sewage systems, which are important facilities for the life support of cities and other settlements, are designed to receive wastewater from the population and treat it.



PLASTIC STORAGE TANK

It has sufficiently thick walls and is made of plastic that is resistant to moisture, acids, and alkalis. This product is exceptionally reliable and durable. The relatively low weight of the storage tank allows it to be installed manually with the help of several assistants. However, in this case, you will have to spend money on the purchase of the tank itself. There are many manufacturers on the market offering various models of different capacities.



SEWAGE SYSTEM

A sewerage system is designed to pump wastewater from places located below the sewer level (bathrooms, laundry rooms, sinks located in basements or semi-basements) or from remote places where water cannot flow into the sewer by gravity.



PLANNING AND DESIGN

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GENERAL CONSTRUCTION

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ENGINEERING

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SECURITY ROOM

DIRECTION “INTERNAL LAYOUT”



BASEMENT FLOOR PLAN

FIRST FLOOR PLAN

SECOND FLOOR PLAN



RIM GROUP offers various categories of products to give your home a finished look, making it not only reliable and safe, but also comfortable and stylish. The work does not end with the design and construction of a “smart home” using innovative technologies. The interior design is also an integral part of the work to make your dream home a reality. We offer a wide range of home furniture, appliances, lighting products, and a wide range of interior decoration items to fill your home with comfort and warmth.

HALLWAY

- Furniture 1
- Textiles 2
- Decor 3
- Storage 4
- Lighting 5



HALLWAY

- Furniture 1
- Textiles 2
- Decor 3
- Storage 4
- Lighting 5



Just as a theater begins with a coat rack, so does a home begin with a hallway. It can be not only a place to store clothes, but also a stylish introduction to the home. A functional hallway allows you to conveniently store not only shoes and outerwear, but also organize storage for seasonal items.



Hallway furniture plays a key role in creating a functional and stylish space. Trends in the hallway furniture market reflect a desire for multifunctionality and transformation, which is particularly relevant for studio apartments. Eco-style is also gaining popularity, offering furniture made from natural materials such as wood, stone, and natural fabrics.

The Russian hallway furniture market is characterized by a wide variety of offerings, including both classic and modern models. An important aspect is the ability to customize furniture through our online store, allowing you to choose materials, sizes, and fittings to suit your needs.



WARDROBE

A wardrobe that matches the color, design, and size of your hallway.



SHELVES

Shelves in the hallway are an important part of the interior, allowing you to place both necessary small items and decorative items on them, making the room not only comfortable but also beautiful. Shelves for the hallway are an important element of the interior, providing not only functionality but also aesthetic appeal to the entrance area.



CHESTS

Chests of drawers for the hallway allow you to neatly and efficiently store bags, hats, scarves, and gloves, and can also be used to store items for clothing and shoe care.



SHOE RACKS

Shoe racks of various sizes help to eliminate clutter and provide stylish and neat storage for shoes, while the top of the rack can be used for decoration or storage of small items.

COUCHES

Couches for the hallway are not only used for changing shoes, but also often serve as a stylish interior item.



BENCHES

Benches for the hallway are a thoughtful solution that combines not only a place to sit, but also storage space for items needed in the hallway.



MIRRORS

Mirrors allow you to visually expand the space, influence the color temperature, and the overall atmosphere of the hallway.



COAT RACKS

Coat racks play an important role in the hallway. They can be used to hang outerwear, hats, and bags, scarves, and umbrellas.



CURTAINS

Curtains for the hallway are an important decorative element that not only protects the room from excessive sunlight and prying eyes, but also creates the first impression of the home.



SHORT CURTAINS



STRING CURTAINS



ROLLER BLINDS



CURTAIN RODS

Curtain rods in the hallway, in addition to providing a place to hang curtains, can add a touch of style to the room and highlight design accents.



RUGS AND MATS

Carpets and rugs for the hallway are important functional and decorative elements that provide comfort and protect the floor at the entrance to the house.



DIRT-TRAPPING MATS



CARPET RUNNERS



DECORATIVE MIRRORS



Decorative mirrors for the hallway are not just a functional element of the interior, but also an important accent that can radically change the perception of space.

MIRRORS OF VARIOUS SHAPES



HONEYCOMB MIRRORS



CLOCKS FOR THE HALLWAY



Hallway clocks are an important decorative element that helps create a cozy atmosphere and emphasize the style of the interior.

TABLE CLOCKS IN THE HALLWAY



Table clocks in the hallway are the perfect choice for rooms with limited space, where walls are used for cabinets and coat racks. The clock can be placed on a shelf, shoe rack, or chest of drawers, allowing you to always know the exact time. Table clocks for the hallway are usually small and have a simple design, allowing them to fit harmoniously into any interior. We will be happy to help you choose the right table clock for your hallway.

FRAMELESS PAINTINGS



MODULAR PAINTINGS



PAINTINGS ON GLASS



NOTICE BOARDS



STORAGE



Storage for the hallway includes a wide range of products designed to organize space and keep this part of the house tidy.

STORAGE ACCESSORIES



CASES



COVERS



STORAGE CONTAINERS



BOXES AND BASKETS



PLASTIC CONTAINERS

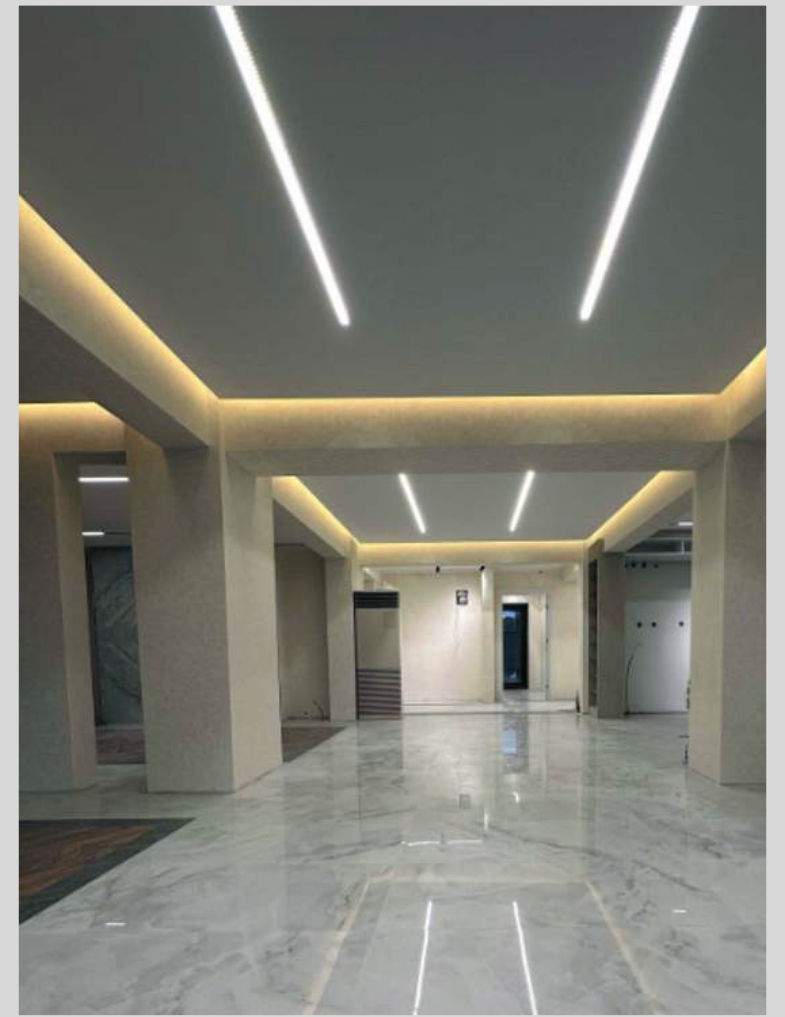


LIGHTING



Lighting in the hallway plays a key role in creating the first impression of your home and ensuring comfort and safety. It should be functional, stylish, and match the overall interior design.

LED LIGHTING



TRACK LIGHTING



SPOT LIGHTING



LIVING ROOM

LIVING ROOM

Furniture	1
Textiles	2
Decor	3
Storage	4
Lighting	5
Appliances	6



The living room is the heart of your home, and choosing the right products can transform it into a cozy and stylish space. Living room furniture, including comfortable sofas, elegant armchairs, functional coffee tables, and exquisite chests of drawers, not only provides comfort but also blends harmoniously with your interior. Each piece is made from high-quality materials and is available in a variety of styles and colors, allowing you to create an atmosphere that reflects your unique style and preferences.

FURNITURE



TEXTILES



Curtains will regulate the level of light and provide the necessary privacy, cushions and throws will add comfort and visual interest, while rugs will create a comfortable and stylish accent in your living room.

STRING CURTAINS



CLASSIC CURTAINS



CARPETS



Carpets play an important role in the living room, adding warmth, comfort, and style to the interior. They can serve not only as a functional floor covering, but also as a bright accent that attracts attention and creates a special atmosphere.

SHAGGY CARPETS



SKIN CARPETS



ORIENTAL CARPETS



DECORATIVE TEXTILES



Decorative textiles for the living room are a variety of items designed to decorate and add a comfortable atmosphere to the interior of a room.

DECORATIVE PILLOWS



DECOR

Living room decor includes a wide range of items that can add personality and style to your interior. These can be designer vases, decorative plates, wall hooks, unusual furniture shapes, stylish clocks, lamps, and much more.



HONEYCOMB MIRRORS



WALL CLOCKS



DESK CLOCK



INTERIOR DESIGN



POSTERS AND PLACARDS



LIGHTING

Create the perfect lighting in your living room with our stylish solutions, which include chandeliers, lamps, LED lighting, track systems, and spot lighting.



CHANDELIERS



LIGHT FIXTURES



LED LIGHTING



TRACK LIGHTING



Our range includes a wide selection of track lighting fixtures for the living room.

BRA



FLOOR LAMPS



KITCHEN

- Furniture 1
- Textiles 2
- Decor 3
- Storage 4
- Lighting 5
- Appliances 6
- Tableware 7
- Plumbing 8
- Household goods
Household chemicals 9



Your kitchen is the heart of your home, and we can help make it stylish and functional. In our range, you will find everything you need to create your dream space: from furniture and textiles to appliances and smart storage solutions.

What do we offer?

Furniture: Stylish and comfortable sets that will fit perfectly into your interior. Textiles: Elegant curtains, tablecloths, and towels that will add comfort and complete the look of your kitchen. Decor: Decorative elements that will emphasize your taste and individuality. Storage: Smart storage solutions that help you keep things tidy and save space. Lighting: Modern lighting fixtures that create a comfortable atmosphere and draw attention to the right areas. Appliances: Innovative devices that make cooking and other kitchen tasks easier. Tableware: High-quality cookware and tableware suitable for any occasion. Household goods: Everything you need to keep your kitchen clean and tidy. Choose all the necessary elements with taste and create the kitchen you've always dreamed of. We will help you transform your kitchen space into a stylish and functional room using new technologies and modern solutions. Turn routine chores into a pleasure with our kitchen products!

BAR COUNTERS



TEXTILES



CURTAINS



ROMAN BLINDS



SHORT CURTAINS



CLASSIC CURTAINS



CURTAIN ACCESSORIES



KITCHEN TEXTILES



CURTAIN RODS



Kitchen textiles are a variety of items that make the kitchen cozy and comfortable, as well as simplify cooking and cleaning.

TOWELS



FURNITURE COVERS

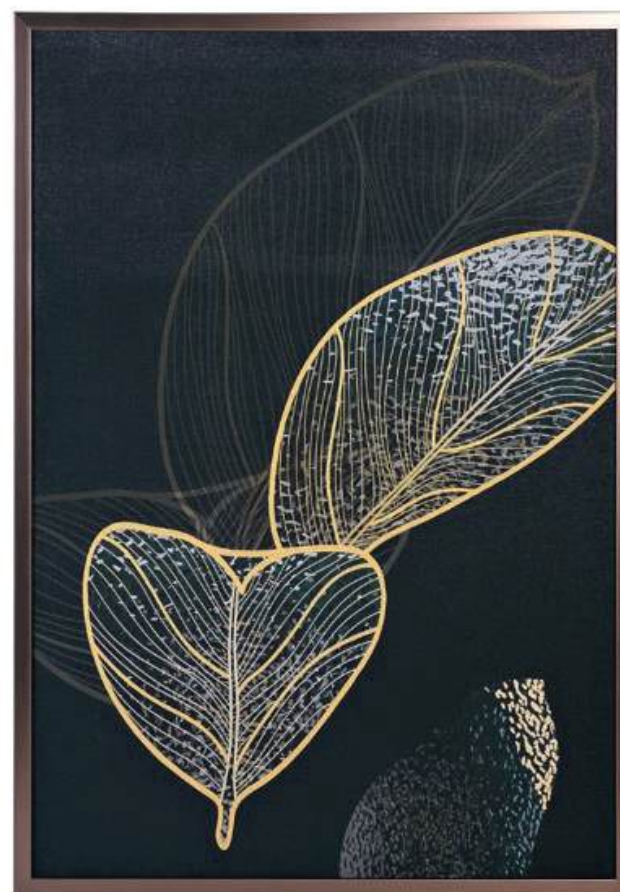


DECOR AND STORAGE

Kitchen decor is a great way to make your interior unique and cozy. It can include various elements that not only decorate the room but also serve practical purposes.



INTERIOR DESIGN



WALL DECOR



KITCHEN STORAGE



The “Kitchen storage” product group includes a wide range of accessories and systems designed to organize and optimize space in the kitchen. These can be various organizers, dividers, pull-out drawers, open shelves, and other elements that help to use the available space efficiently.

FOOD STORAGE



Storage containers come in various shapes, sizes, and materials.

TABLEWARE STORAGE



There are many products available to organize space and conveniently store kitchen utensils.

LIGHTING



Lighting in the kitchen plays a key role in creating a comfortable and functional atmosphere. It should match the overall style of the interior and provide sufficient light for different areas: the work area, dining area, and relaxation area.

SPOT LIGHTING



TRACK LIGHTING



HOUSEHOLD APPLIANCES

Kitchen appliances are a wide range of devices designed to make cooking easier and more comfortable. This category includes many devices, from large ones such as refrigerators and stoves to small ones such as toasters and blenders.



CLIMATE CONTROL



TABLEWARE

Tableware is a broad product group that includes many types of items designed for preparing, serving, and storing food. It plays an important role in people's daily lives, providing comfort and convenience when eating.



COOKWARE



TABLEWARE



PLUMBING



KITCHEN SINKS



Kitchen sinks are an important element of the kitchen space, designed for washing dishes and food.

KITCHEN FAUCETS



Here you can find a kitchen faucet that perfectly matches your interior and performs all the functions you need.

HOUSEHOLD GOODS



HOUSEHOLD CHEMICALS



DINING ROOM

- Furniture 1
- Textiles 2
- Decor 3
- Storage 4
- Lighting 5
- Appliances 6
- Tableware 7
- Household chemicals 8



The dining room is the central place in the home, where all family members love to gather. This is where guests are welcomed, significant events are celebrated, and various culinary masterpieces are tasted. Therefore, the design and selection of furniture for the dining room must be approached with particular care, carefully studying the characteristics of the products and their functional purpose. Our company offers a wide range of products for dining rooms that will help make your space even more comfortable and attractive. Here you will find everything you need: tableware, cutlery, textiles, furniture, and much more. We work only with trusted manufacturers, so we can guarantee the high quality of our products. If you are looking for a reliable supplier of dining room products, please contact us. We will help you choose everything you need and arrange fast delivery.

FURNITURE



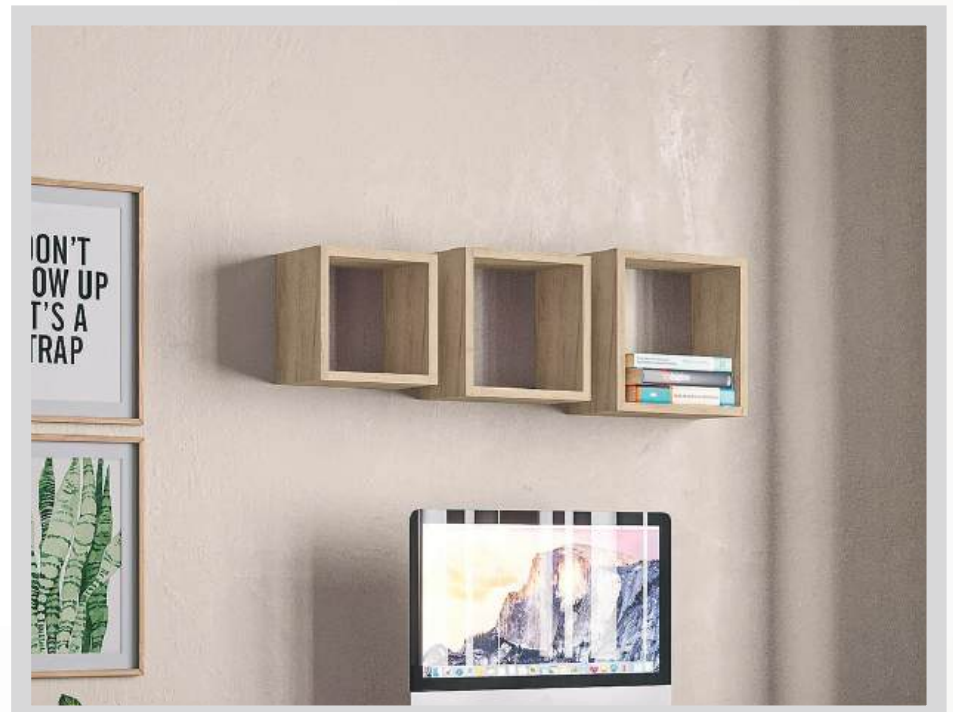
CABINETS



RACKS



SHELVES



SIDE TABLES



DECORATIVE FURNITURE



TEXTILES



CURTAINS



Create an elegant and cozy interior in your dining room with our stylish curtains. We offer a wide range of curtains that will help you add personality and sophistication to your dining space. Our curtains are made from high-quality fabrics that not only look great but also provide excellent functionality, regulating the amount of light and creating a cozy atmosphere. The variety of designs, colors, and textures allows you to choose the perfect option that will highlight your taste and fit harmoniously into any interior style.

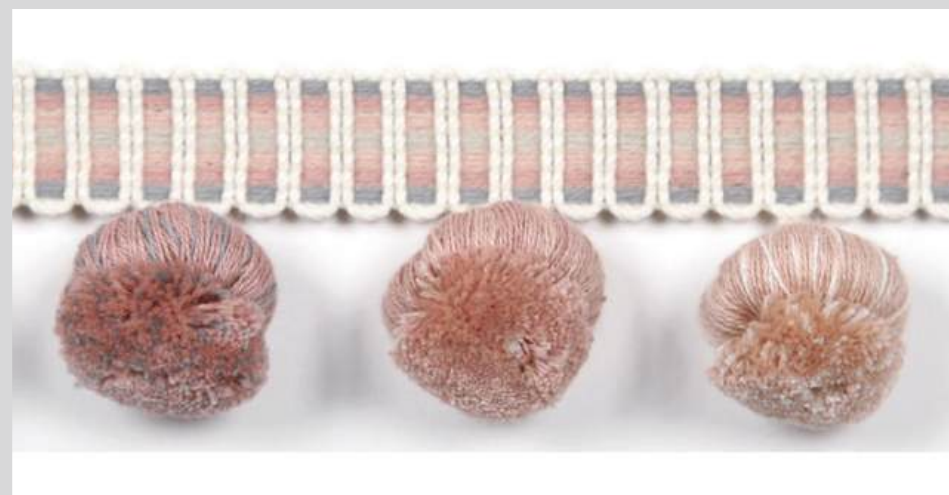
ROMAN BLINDS



CLASSIC CURTAINS



CURTAIN ACCESSORIES



CURTAIN RODS



CARPETS

MODERN CARPETS



Create comfort and style in your dining room with our magnificent carpets, which will add sophistication and comfort to your space. Our range includes animal skin rugs, modern rugs, classic rugs, oriental rugs, and shaggy rugs, each of which will bring a special atmosphere and accent to your interior.

ORIENTAL RUGS

SHAGGY RUGS



CLASSIC RUGS



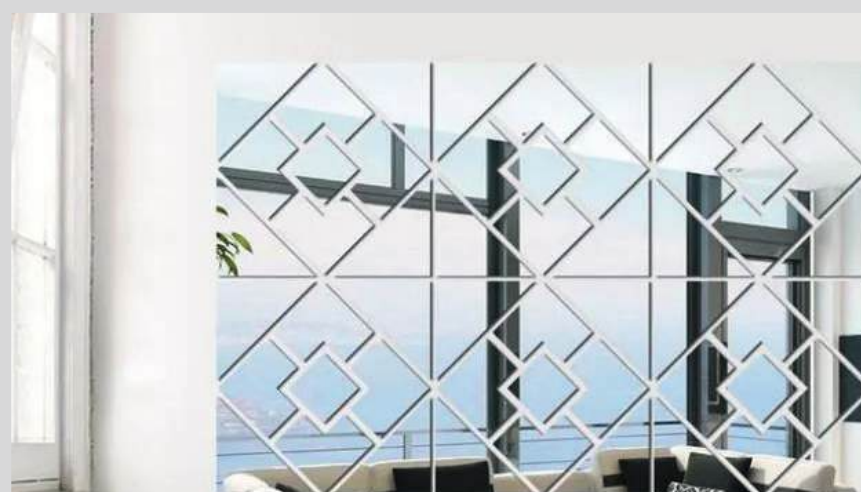
DECORATIVE TEXTILES



DECOR



MIRROR PANELS



MIRRORS OF VARIOUS SHAPES



CLOCKS

Add sophistication and functionality to your dining room with our collection of clocks, which will not only be a practical accessory but also a stylish accent in your interior. We offer a variety of clocks, from elegant wall models to stylish table options that will easily fit into any interior.



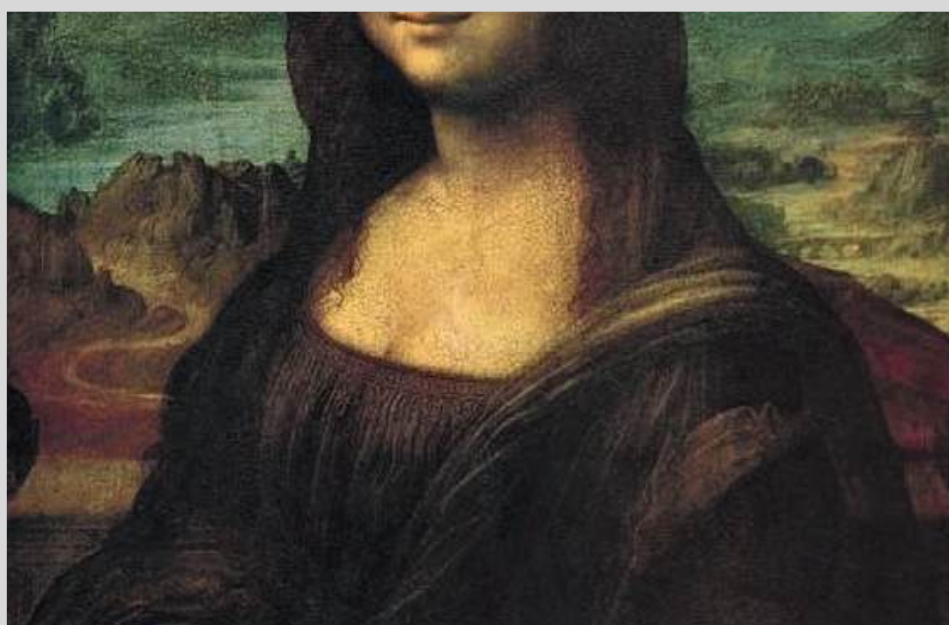
UNFRAMED PAINTINGS



CANVAS PAINTINGS



FRAMED PAINTINGS



NOTEBOARDS



INTERIOR DESIGN

Create a unique atmosphere in your dining room with our interior design products! We offer a wide range of products to help make your home even more comfortable and beautiful.

VASES AND FLOWERS



HOME FRAGRANCES

CANDLES AND CANDLE HOLDERS



STORAGE



Our company offers a wide range of storage products for the dining room. We will help you choose the best solutions for organizing space and storing tableware, cutlery, textiles, and other items.

BOXES AND BASKETS



PLASTIC CONTAINERS AND CRATES



LIGHTING



Dining room lighting is key to creating a cozy and welcoming atmosphere where every meal becomes a special ritual. The right lighting fixtures accentuate the focal point—your dining table—creating warm and pleasant lighting that encourages long conversations and enjoyment of delicious food. Whether you prefer elegant chandeliers, stylish pendant lights, or functional spotlights, you can easily find an option that will highlight the beauty of your interior and provide comfort for every guest.

CHANDELIERS



LAMPS



TRACK LIGHTING



FLOOR LAMPS



BRA



EQUIPMENT FOR THE DINING ROOM



Various types of equipment are used in the dining room. Depending on the size of the room, there may be televisions, audio-video equipment, large household appliances such as wine cabinets or refrigerators, as well as equipment for making tea or coffee.

TELEVISIONS



TV ACCESSORIES



CLIMATE CONTROL EQUIPMENT

Climate control equipment is multifunctional devices that create an optimal microclimate in a room. They purify the air of pollutants and humidify it. Climate control equipment performs the following tasks: maintains air circulation, removes allergens, viruses, bacteria, gases, and other pollutants, eliminates unpleasant odors, and maintains optimal humidity levels in the room.



TABLEWARE

Tableware includes a variety of items such as plates, salad bowls, appetizer dishes, serving stands, and condiment holders. Plates come in round, square, and oval shapes, and salad bowls are made of porcelain, crystal, wood, and glass. Appetizer dishes come in different shapes and sizes, and tiered serving stands and condiment holders are used to serve several types of appetizers at the same time. We offer a wide selection of plates in various shapes and sizes, salad sets, tiered serving stands, and condiment holders.



PLATES

Plates are one of the main elements of table setting. They come in different types and sizes, each designed for a specific type of dish.



TABLEWARE

A tableware set is a set of tableware, tea or coffee dishes that contains the essential items for a certain number of people. Tableware sets are divided into dinner, dessert, tea and coffee sets. They can be made of different materials, such as porcelain, earthenware, glass and steel.



SERVING DISHES



CUTLERY

Cutlery includes individual items (spoons, forks, knives) and serving utensils (spatulas, butter and cheese knives, salad spoons, pastry tongs, spatulas).



GLASSES AND WINE GLASSES

Glasses and wine glasses are glass vessels used for serving beverages.

TEA TABLEWARE

Immerse yourself in the atmosphere of a cozy tea party with our tea tableware, which will add sophistication to every tea party.



COFFEE TABLEWARE



Coffee tableware comes in a variety of materials, including ceramic, porcelain, and glass. The choice of tableware depends on the type of coffee and how it is prepared.

BEDROOM

BEDROOM



Create the perfect cozy and comfortable corner in your bedroom! Our bedroom solutions will help you create a space where every detail is designed for your comfort and peace of mind. We offer a wide selection of diverse products that make it easy to combine style and practicality. In our range, you will find everything you need to create a harmonious and cozy atmosphere. Furniture, textiles, and decor in a variety of styles allow you to bring your boldest design ideas to life. Whether you prefer classic or modern trends, we have the perfect products for your bedroom.

Transform your bedroom into a place where you can relax and recharge your batteries. Comfortable beds, functional wardrobes, soft rugs, and stylish accessories will create a unique space that reflects your taste and provides maximum comfort. Let us help you create the bedroom of your dreams.

FURNITURE

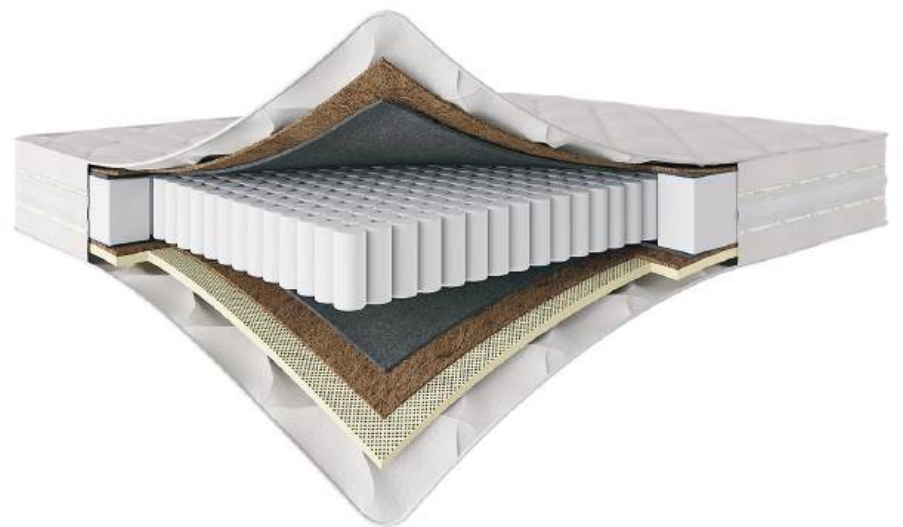


Bedroom furniture plays a key role in creating a cozy and comfortable atmosphere for rest and sleep. It includes various elements such as beds, bedside tables, wardrobes, chests of drawers, dressing tables, and other items that help organize the space and create a harmonious room design.

BEDS



MATTRESSES



WARDROBES



CHESTS OF DRAWERS



SHELVING UNITS



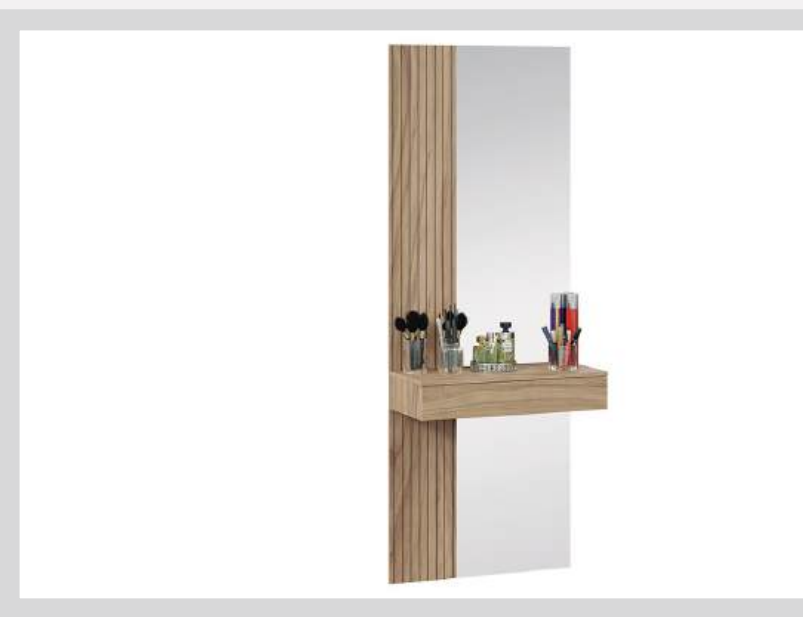
SHELVES



BEDSIDE TABLES



DRESSING TABLES AND SIDE TABLES



DECORATIVE FURNITURE



TEXTILES



BEDDING

Immerse yourself in a world of luxury and comfort with our exclusive bedding. Our collections are designed for those who appreciate high quality and refined style. Made from premium materials such as Egyptian cotton and satin, our bedding is not only pleasant to the touch but also durable.



PILLOWS



THROWS AND BEDSPREADS



BLANKETS



CURTAINS



RUGS



DECOR



INTERIOR DESIGN

Create the perfect atmosphere in your bedroom with our interior design products that will transform your home into a true oasis of comfort and style. In our range, you will find everything you need to give your space a unique and warm feel.



HOME FRAGRANCES



CANDLES AND CANDLE HOLDERS



FRAMELESS PAINTINGS



CANVAS PAINTINGS



MODULAR PAINTINGS



PAINTINGS ON GLASS



FRAMED PAINTINGS



PORTRAITS



FRAMED LANDSCAPES



POSTERS



STORAGE



Create order and style in your bedroom with our functional and elegant storage solutions. Our collection offers a wide selection of convenient and practical items. Each product is designed with modern trends and high quality standards in mind to ensure not only optimal use of space but also a harmonious addition to your interior.

STORAGE ACCESSORIES



STORAGE CONTAINERS



LIGHTING



Bedroom lighting includes a variety of lighting solutions designed to create a cozy and functional atmosphere. Properly selected lighting can significantly improve the comfort, mood, and aesthetics of a room, providing both general lighting and accent lighting to create areas for relaxation, work, or reading. This product includes ceiling lights, wall sconces, table lamps, built-in lighting, and decorative lights, each of which plays a specific role in the interior.

CHANDELIERS



LIGHT FIXTURES



LED LIGHTING



BRA



TABLE AND BEDSIDE LAMPS



FLOOR LAMPS



APPLIANCES

Update your bedroom interior with our high-quality appliances that combine cutting-edge technology and elegant design. We offer a wide selection of TVs, including Android models with Yandex.TV.



TVS



SATELLITE AND DIGITAL TV



AUDIO, VIDEO, HI-FI EQUIPMENT



ACCESSORIES FOR TV, AUDIO, VIDEO



CHILDREN'S ROOM

CHILDREN'S ROOM

Furniture	1
Textiles	2
Decor	3
Storage	4
Lighting	5
Appliances	6



Every detail of your child's room should delight and inspire them. Our products, designed with a fresh approach to design, include everything you need to create a harmonious space: from soft lighting to bright decorative elements. With our solutions, the room will meet your child's needs at every stage of their growth.

We offer everything you need to create the perfect children's room: safe and comfortable furniture, textiles that add coziness, and appliances for your convenience. Our range allows you to create a space where your child will enjoy playing, relaxing, and developing. Furnish your children's room with the future in mind.

FURNITURE



CHILDREN'S BEDS AND MATTRESSES

Ensure your child has sweet dreams and a comfortable night's sleep with our exclusive collection of children's beds and mattresses! We offer a wide range of models that are ideal for toddlers and teenagers, providing not only comfort but also support for growing bodies.



SOFAS



CHAIRS



CHILDREN'S WARDROBES



SHELVES



CABINETS



DESKS



CHILDREN'S MODULAR FURNITURE



BED LINEN



PILLOWS



DECORATIVE TEXTILES



CURTAINS



RUGS



DECOR



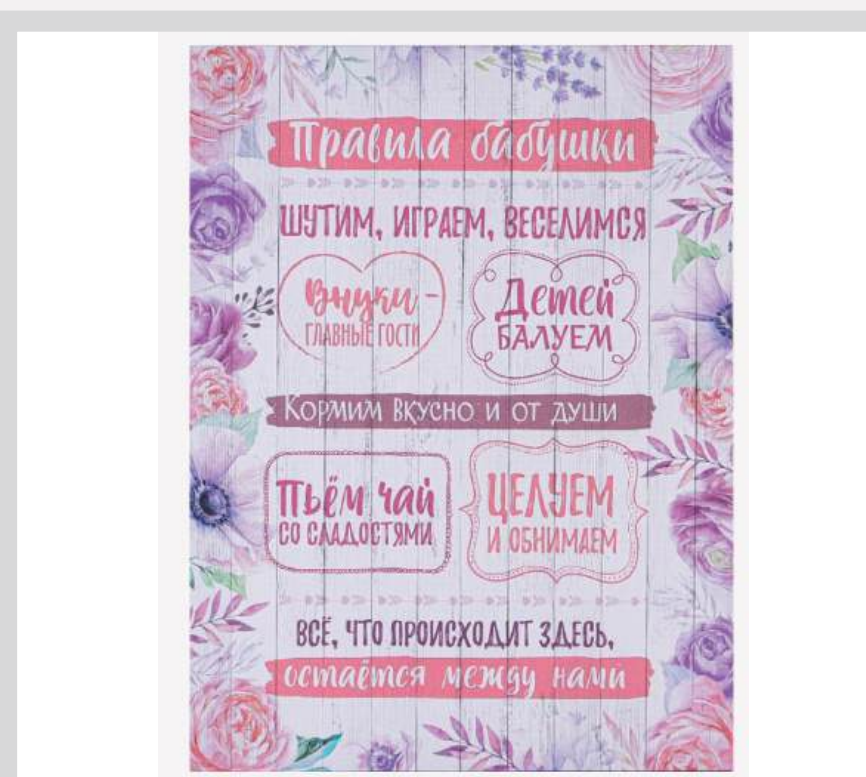
DECORATIVE MIRRORS



CLOCKS



POSTERS



STORAGE



STORAGE CONTAINERS



LIGHTING

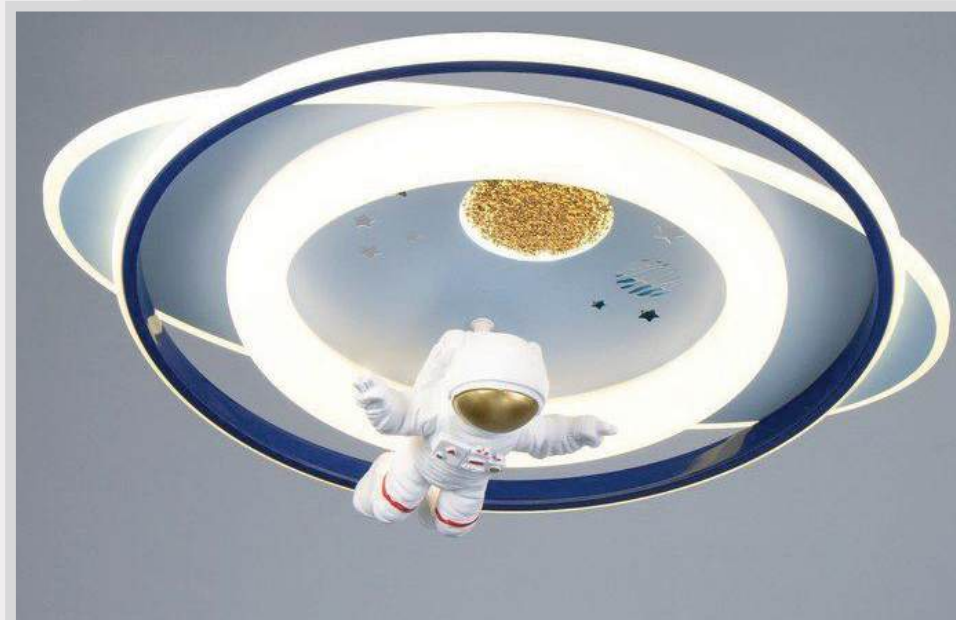


ur lighting fixtures not only provide high-quality lighting, but also help develop your child's imagination and creativity. Chandeliers with fun shapes and bright colors transform a room into a fairy-tale world, while LED lighting adds magic by creating spectacular light accents on the walls and ceiling. Thanks to the variety of styles and designs, you can choose the perfect solutions that will emphasize the uniqueness of your interior and delight your little one.

CHANDELIERS



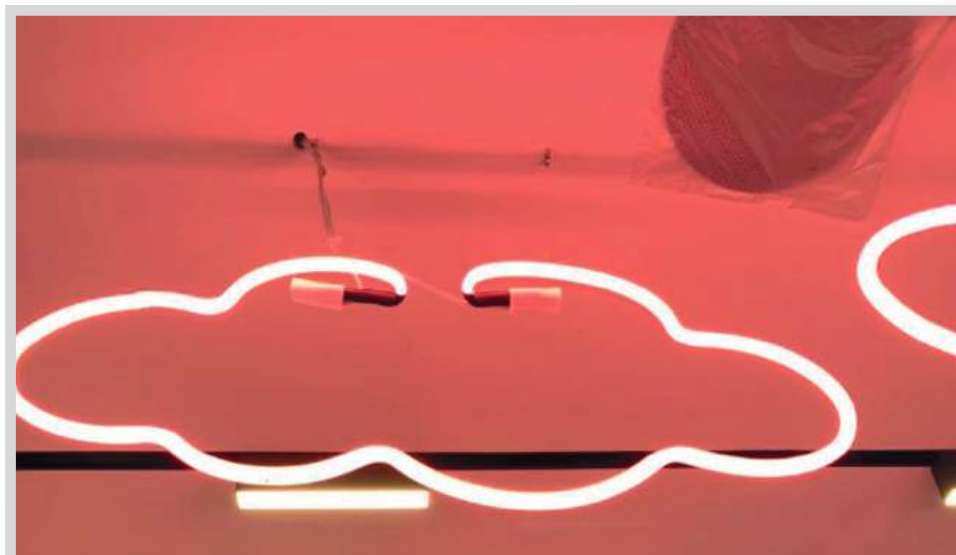
LIGHT FIXTURES



BPA



LED LIGHTING



FLOOR LAMPS



TABLE AND BEDSIDE LAMPS



HOME APPLIANCES



Create the perfect space for entertainment and comfort in your child's room with our home appliances. We offer a wide selection of TVs, satellite and digital TV, game consoles, and accessories to help your child enjoy their favorite cartoons, movies, and games. Our TVs provide excellent picture quality, while modern set-top boxes and gaming accessories add exciting opportunities for development and entertainment. All this makes your child's room a center of entertainment and exciting activities.

Don't forget about climate control equipment, which will help create the perfect conditions for rest and study. Air conditioners and humidifiers will ensure a comfortable temperature and humidity, maintaining a healthy microclimate in the room. With our home appliances, you can easily create the perfect space for your child, where they will feel comfortable and enjoy spending time. Invest in modern and reliable devices that will make your little one's life more comfortable and joyful.

TVS



GAME CONSOLES

Our game consoles and consoles offer not only entertainment, but also opportunities for your child's learning and development. Many games available on these devices are designed with educational purposes in mind - they help improve memory, develop problem-solving skills, and introduce children to the basics of programming, mathematics, and language.



CLIMATE CONTROL



BATHROOM

- Bathroom furniture1
- Lighting2
- Household appliances3
- Plumbing4
- Household goods
Household chemicals5
- Bathroom accessories6



Create a stylish and functional space in your bathroom with our products! We offer a wide range of furniture, sanitary ware, lighting, and appliances to ensure that every detail of your bathroom meets high standards of comfort and modern design. Using smart solutions and new technologies, you can easily transform your bathroom into a place where every minute is a pleasure.

Bathroom furniture, designed with design solutions in mind, not only looks stylish but is also extremely practical. Our lighting fixtures create a soft and pleasant light, ideal for relaxation. Plumbing fixtures, appliances, and household goods guarantee convenience and durability in everyday use.

BATHROOM

Create the perfect space for your morning ritual and evening relaxation with our high-quality bathroom products. Our range includes stylish and functional bathroom furniture that will fit seamlessly into any interior, from classic to contemporary. Well-designed lighting will create a cozy atmosphere, while innovative appliances will make your personal care routine as comfortable as possible. High-quality plumbing fixtures will ensure reliability and durability, and practical household items will help you keep everything in perfect order.

BATHROOM FURNITURE



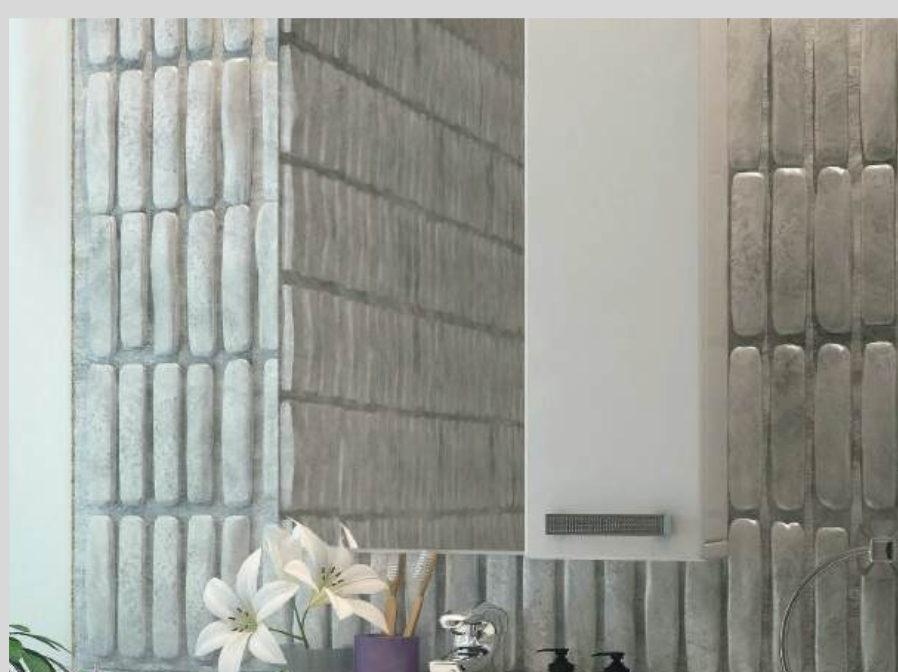
CABINETS



CABINETS, CUPBOARDS, AND DRAWERS



MIRROR CABINETS AND MIRRORS



FURNITURE SETS



LIGHTING

Choosing lighting for a bathroom is not an easy task. This room must be equipped with lighting fixtures with a high level of moisture protection (IP 44 and above), with increased resistance to moisture and steam, and at the same time have a modern and aesthetic appearance. Ceiling LED lights and built-in swivel spotlights are suitable for bathrooms.



SPOT LIGHTING



STORAGE SYSTEMS



LIGHT FIXTURES



LED BACKLIGHTING



HOME APPLIANCES

WASHING MACHINES AND DRYERS



CLEANING APPLIANCES



Home appliances for the bathroom are indispensable helpers that make your life more comfortable and easier. Our range includes washing machines and dryers that are ideal for effective laundry care even in limited spaces. Compact and multifunctional, they save you time and ensure flawless washing and drying results.

BEAUTY AND HEALTH APPLIANCES



PLUMBING

SINKS AND FAUCETS



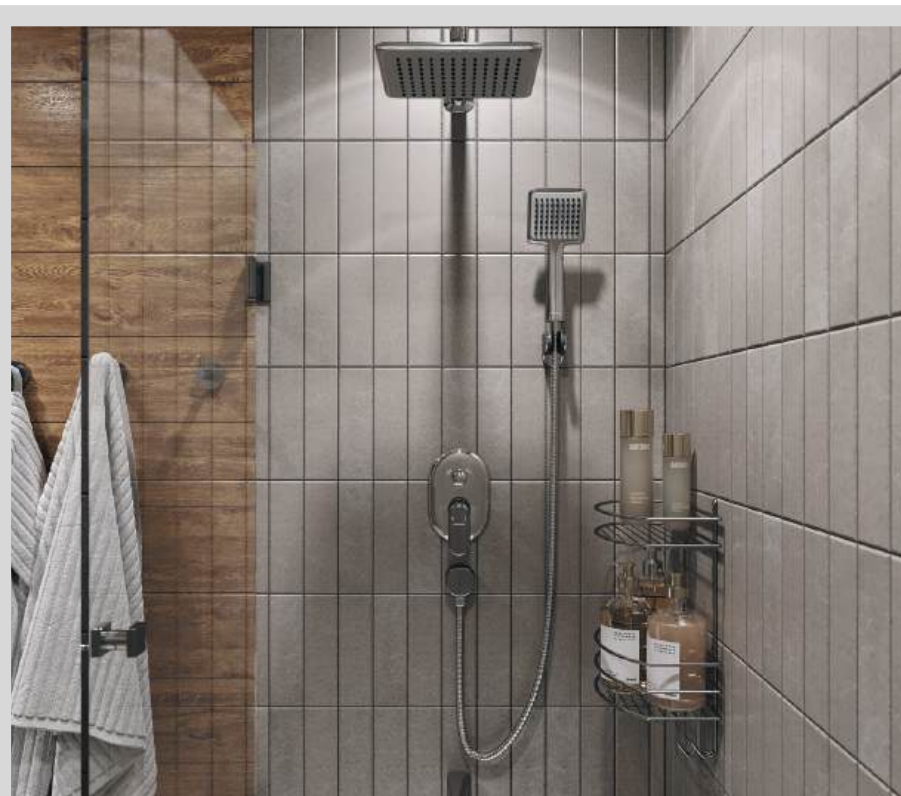
TOILETS AND BIDETS



Bathroom fixtures are the foundation of comfort and style in your home. Our range includes sinks and faucets, toilets, and bidets that perfectly combine modern design and high functionality. Every detail has been carefully thought out to ensure convenience and durability. You can choose products that will emphasize the individuality of your interior and create a cozy space where every morning routine will be a pleasure.

BATHTUBS AND SCREENS

SHOWER ENCLOSURES AND EQUIPMENT



TOWEL DRYERS



HOUSEHOLD GOODS AND CLEANING PRODUCTS



HOUSEHOLD GOODS



Our household goods and cleaning products are comprehensive solutions for maintaining cleanliness and comfort in your home. We offer a wide range of cleaning equipment, including all the tools you need to make cleaning as efficient and easy as possible. From convenient mops and sturdy buckets to innovative cleaning systems, we have everything you need to keep your home tidy.

HOUSEHOLD CHEMICALS



STUDY ROOM

- Furniture 1
- Textiles 2
- Decor 3
- Lighting 4
- Appliances 5



Create an office that reflects your status and taste, combining tradition with new design trends. We offer products that will help you decorate your workspace in a classic style, creating an atmosphere of prestige and solidity. Our range includes elegant furniture, luxurious carpets, and curtains that will add warmth and comfort to your office.

Stylish and high-quality interior elements, such as classic wooden tables, bookcases, and comfortable armchairs, will allow you to work in comfort and inspiration. We also offer exquisite lighting that will highlight the advantages of your office and create the right mood. Modern technology that fits organically into the classic design will ensure functionality and convenience in your work.

Complete the look of your office with details that reflect your personality and prestige. Every element, from carpets to accessories, is selected with your taste and desire for perfection in mind. Your office will become a place where style, status, and a commitment to tradition create the ideal conditions for productive work.

STUDY ROOM

A study room in your home is a space where status, style, and functionality come together in perfect harmony. The right furniture will create a business-like atmosphere and a sense of comfort, whether it's a classic desk made of fine wood or a modern loft-style workspace with steel elements. Our range includes solutions for all preferences, from refined classics to avant-garde and Scandinavian minimalism. Each design solution is aimed at creating the ideal conditions for productive work and comfortable relaxation in your office.



FURNITURE

Office furniture is the foundation of your personal space, where comfort and style go hand in hand with functionality. In our range, you will find everything you need to create the perfect home office. Stylish sofas and armchairs provide comfort for relaxation or meetings with guests, adding a touch of elegance and coziness to the interior. We offer solutions for any style, whether classic, modern minimalism, or loft—each piece of furniture will emphasize your taste and statu



SOFAS



ARMCHAIRS



CABINETS, DISPLAY CABINETS, AND SIDEBARDS

CHESTS OF DRAWERS



CHAIRS AND OFFICE CHAIRS

TABLES



TV STANDS





Decorate your office with impeccable taste by choosing our textiles to create a cozy and stylish atmosphere. Roman and classic curtains will add elegance and completeness to your interior. Combined with our curtain rods and accessories, they will create a harmonious look that will emphasize your individuality.

ROLLER BLINDS



CLASSIC CURTAINS



CARPETS



FUR RUGS



MODERN CARPETS



CLASSIC CARPETS



SHAGGY RUGS



ORIENTAL RUGS



DECOR



Decorative mirrors add light to a space and visually enlarge a room, creating a feeling of openness. Clocks are not only functional, but also stylish accents in your interior, reflecting your organization and style.

DECORATIVE MIRRORS



CLOCKS



INTERIOR DESIGN

PORTRAITS AND POSTERS



LIGHTING



CHANDELIERS

LAMPS



TRACK SYSTEMS



BRA



FLOOR LAMPS



SPOTLIGHTS



HOME APPLIANCES



Equip your office with cutting-edge home appliances that will ensure comfort, productivity, and relaxation in one space. Our range includes televisions and equipment for satellite and digital TV, which will help you create the perfect area for presentations or relaxation after a long day at work. You can enjoy high-quality images and access to the channels you want at any time.

AUDIO, VIDEO, AND HI-FI EQUIPMENT



GAME CONSOLES AND SET-TOP BOXES



STORAGE ROOM

- Furniture 1
- Storage 2
- Lighting 3
- Household goods
Household chemicals
Tools 4

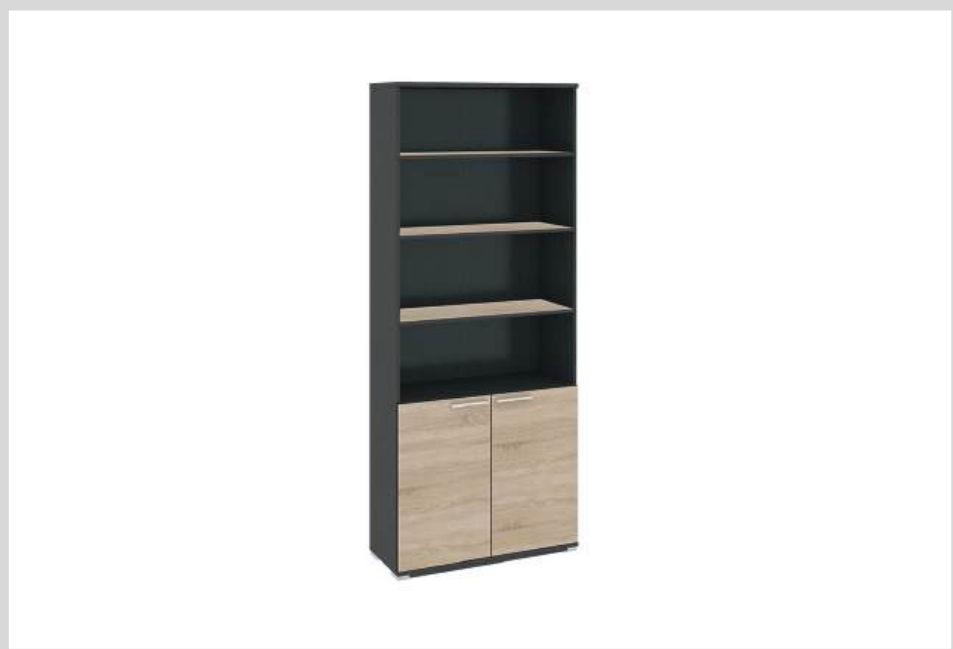


Discover the perfect storage solutions with our collection of furniture, lighting, and accessories. Our cabinets, shelves, and dressers will help you organize your space so that everything has its place and your interior looks stylish and tidy. Add to that our lighting fixtures, which will not only illuminate every corner but also create a cozy atmosphere for comfort and convenience.

Transform your space with our practical storage products and household accessories. Boxes, organizers, and baskets will help you organize everything you need, while cleaning supplies from our range will make keeping your space clean quick and easy. Enjoy impeccable order in a room where everything is organized down to the last detail.

Don't forget about high-quality tools that will help you easily assemble and install furniture, as well as keep your space in perfect condition. Create a functional and beautiful storage room by choosing the best solutions for your home.

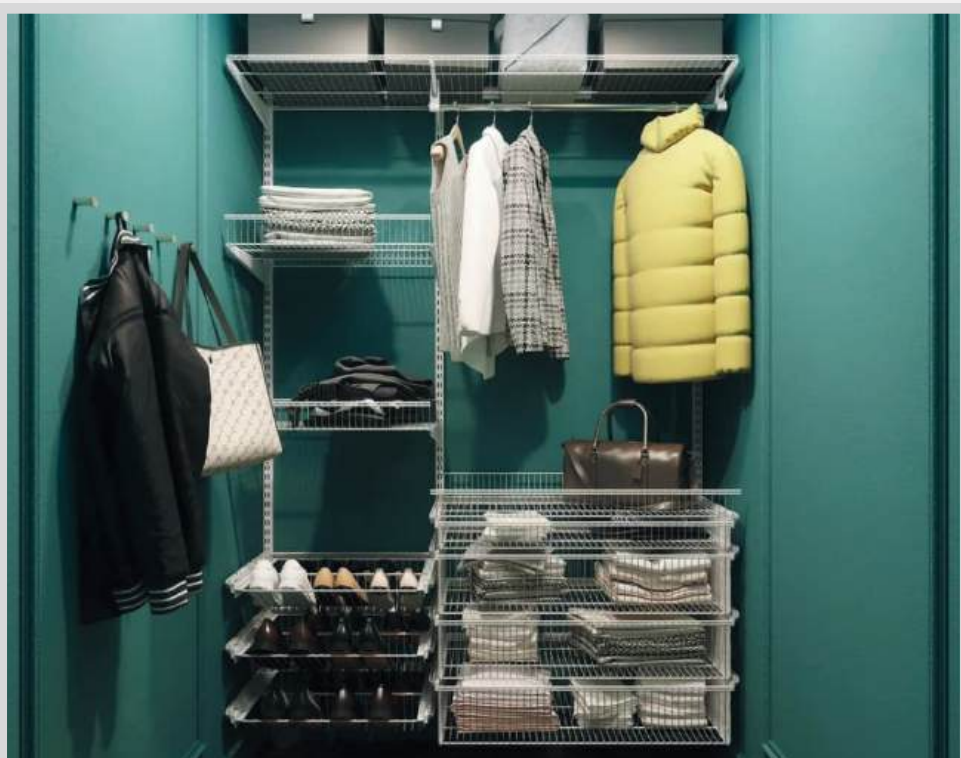
FURNITURE



SHELVING



MODULAR SYSTEMS



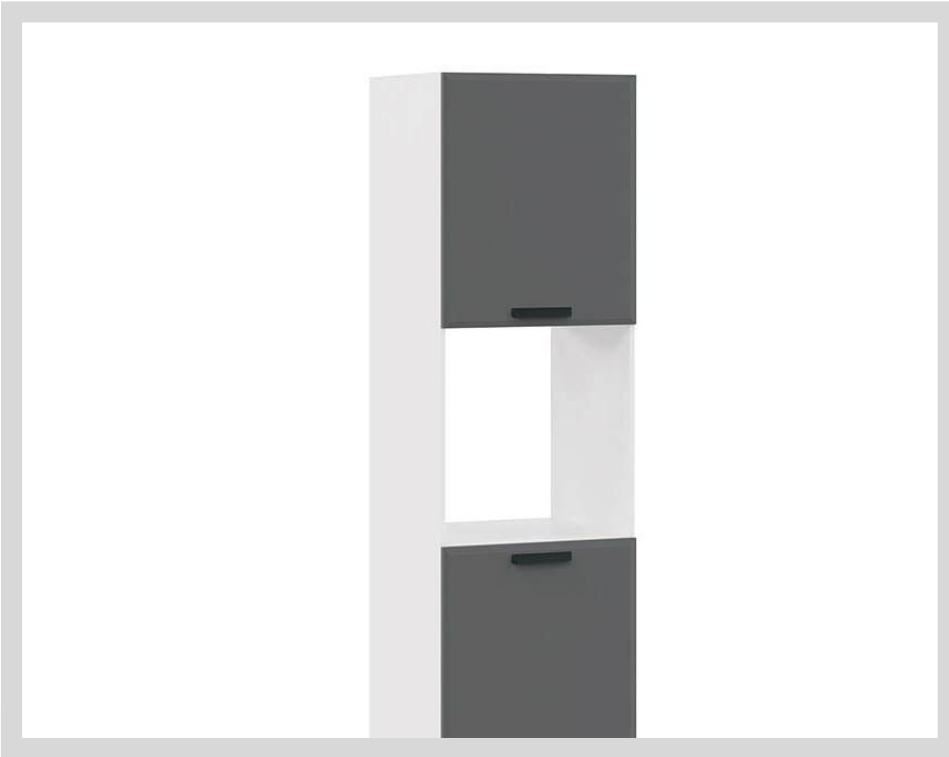
WALL CABINETS



FLOOR CABINETS



PENCIL CASES



CLOTHES RACKS

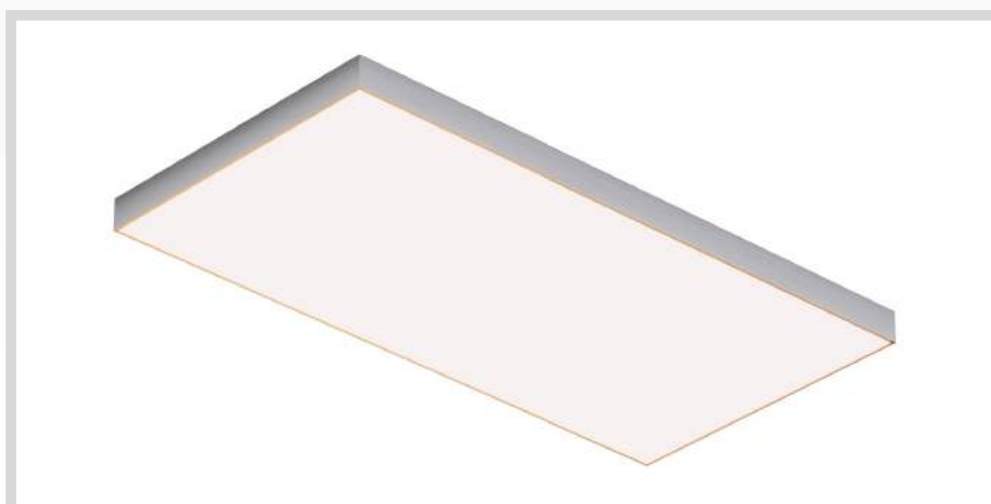


STORAGE



Our storage solutions will help you turn any space into a model of order and functionality. We offer a wide range of storage products that are suitable for storing everything from clothes and shoes to tools and household items. With our products, you can make effective use of every corner of the room, creating convenience and organization.

LIGHTING



LAMPS



TOOLS



LAUNDRY

- Furniture 1
- Storage 2
- Lighting 3
- Appliances 4
- Household goods
Household chemicals 5



LAUNDRY



Create the perfect laundry room where everything is within reach. Our range of laundry products includes everything you need to organize your space, from furniture to appliances. With convenient storage systems, functional furniture, and thoughtful lighting, your laundry room will become a stylish and efficient workspace. Everything you need to care for your belongings will be in its place, keeping your daily chores tidy and easy. Modern appliances and smart storage solutions. Powerful and energy-efficient washing machines, dryers, and other appliances will take perfect care of your clothes. Convenient cabinets and shelves will help you organize space for detergents, towels, and other essentials. Your laundry room will become a comfortable space where everything is in its place, and the process of washing and caring for your home will be quick and enjoyable.

FURNITURE



SHELVING



MODULAR SYSTEMS



FLOOR-STANDING AND WALL-MOUNTED CABINETS



CABINETS



CLOTHES RACKS



LIGHTING



If you are looking for a modern and smart lighting solution for your laundry room, we will be happy to help you. Our range includes both standard wall and ceiling lights that can be placed anywhere in your laundry room, as well as innovative smart solutions such as lights that can be switched on according to a schedule, using a smartphone, or controlled by voice. These lights can also change the “light temperature” in the room and the intensity of the light, ensuring comfort for the eyes and sufficient lighting for various tasks in the laundry room, such as washing, drying, ironing, and sorting laundry.

LIGHTING



SPOT LIGHTING



STORAGE

Discover the perfect storage solutions for your laundry room! Our storage products will help you organize your space so that everything is easily accessible and in its place. We offer a wide range of shelves, containers, and baskets to help you organize household chemicals, textiles, and other accessories. With our solutions, you can create the most efficient and tidy space where it's easy to keep things in order and find everything you need.



STORAGE CONTAINERS



HOUSEHOLD GOODS

Our range includes everything you need to keep your home tidy and organized, from convenient and durable ironing boards to innovative clothes dryers that will help keep your clothes in excellent condition. Our cleaning and organization products will help you easily maintain cleanliness and order, making every task in the laundry room pleasant and easy.



HOUSEHOLD CHEMICALS



HOME APPLIANCES



WASHING MACHINES AND DRYERS

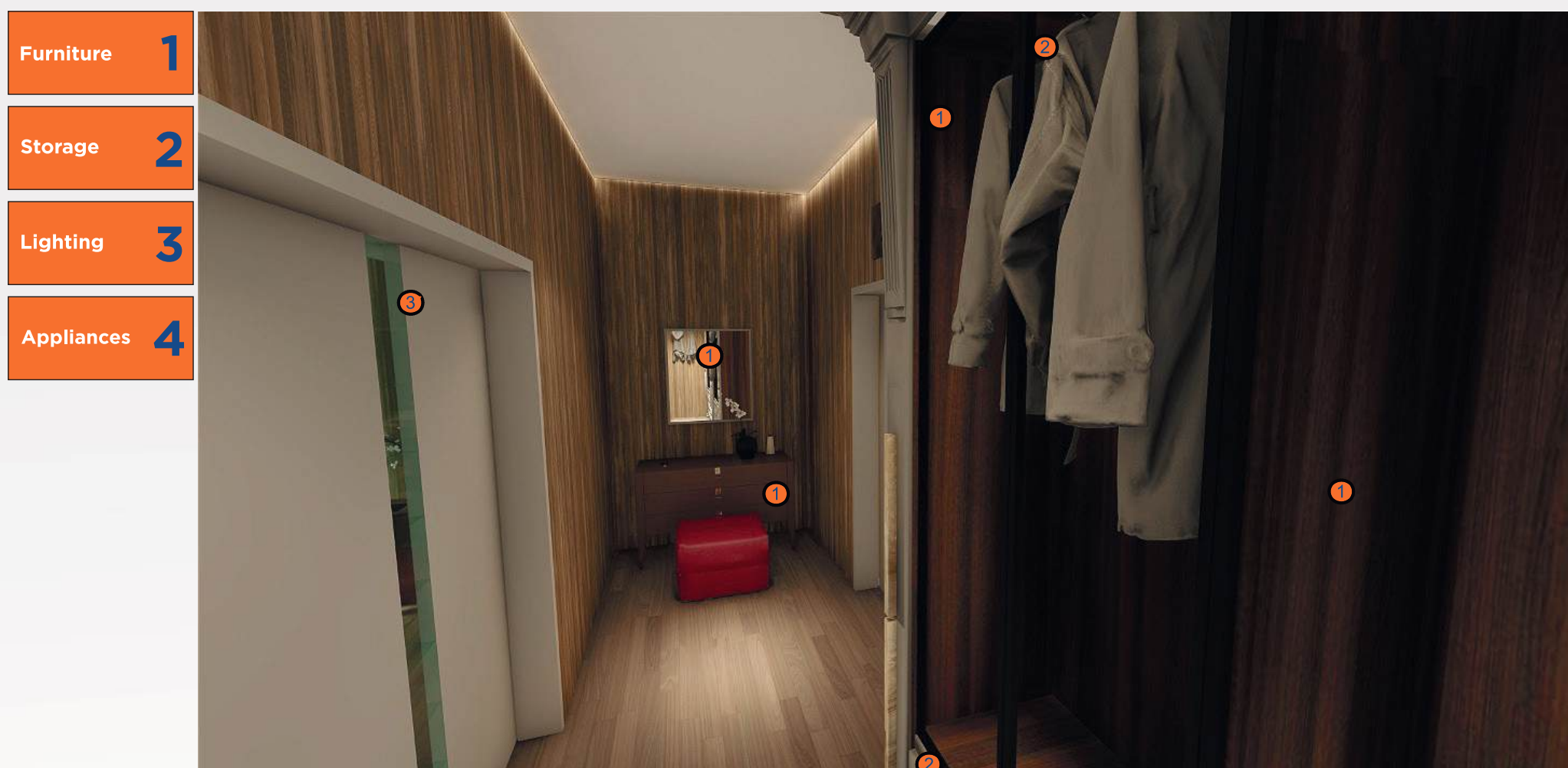


IRONING APPLIANCES

Discover the world of flawless garment care with our advanced ironing appliances. Our steam generators and steamers offer smart solutions for fast and efficient ironing, eliminating time-consuming procedures and ensuring perfect smoothness even for the most delicate fabrics. Enjoy the convenience and quality of new technologies that make ironing easy and enjoyable.



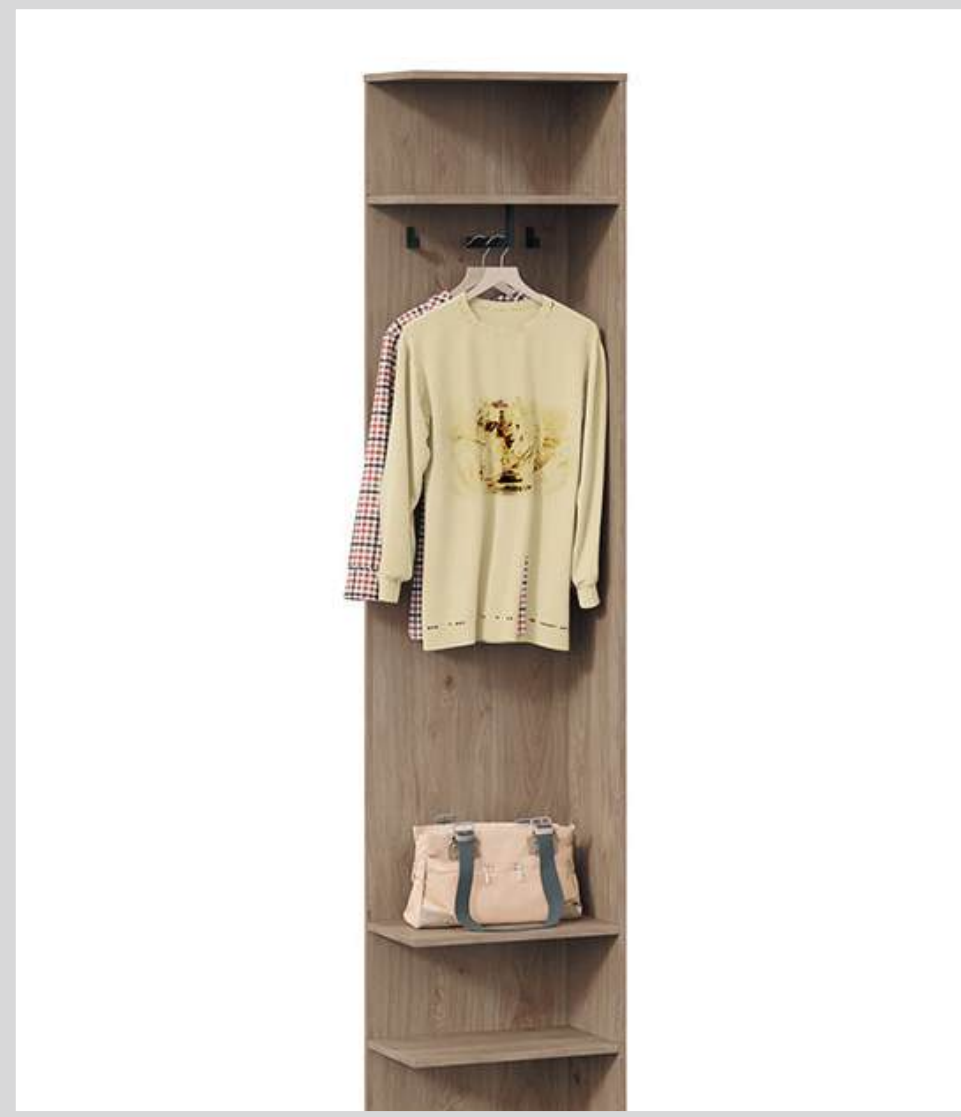
WALK-IN CLOSET



Transform your walk-in closet into a stylish and functional space with our design solutions that help you make the most of every square foot. Our accessories and furniture for storing seasonal clothing will help you organize your belongings and create a harmonious design. Elegant shelves, built-in storage systems, and stylish organizers will not only make it easier to access your outfits, but also add an aesthetic touch to your interior.

Each of our solutions is thought out down to the smallest detail to ensure optimal use of space in your walk-in closet. Convenient and modular storage systems allow you to easily adapt the space to your needs, creating the perfect place to store clothes and accessories. Make your walk-in closet a model of style and order with our innovative solutions that combine practicality and sophisticated design.

FURNITURE



Transform your wardrobe with our stylish and functional furniture that makes organizing your space easy and enjoyable. Our elegant shelving units and modular systems allow you to create a custom design that perfectly suits any size and need. Combine wardrobes with mirrors for added convenience and style, while chests of drawers and clothes racks help keep things tidy and ensure easy access to your favorite items.

Mirrors

MIRRORS



MODULAR SYSTEMS



FLOOR-STANDING AND WALL-MOUNTED WARDROBES



CLOTHES RACKS



STORAGE



STORAGE ACCESSORIES



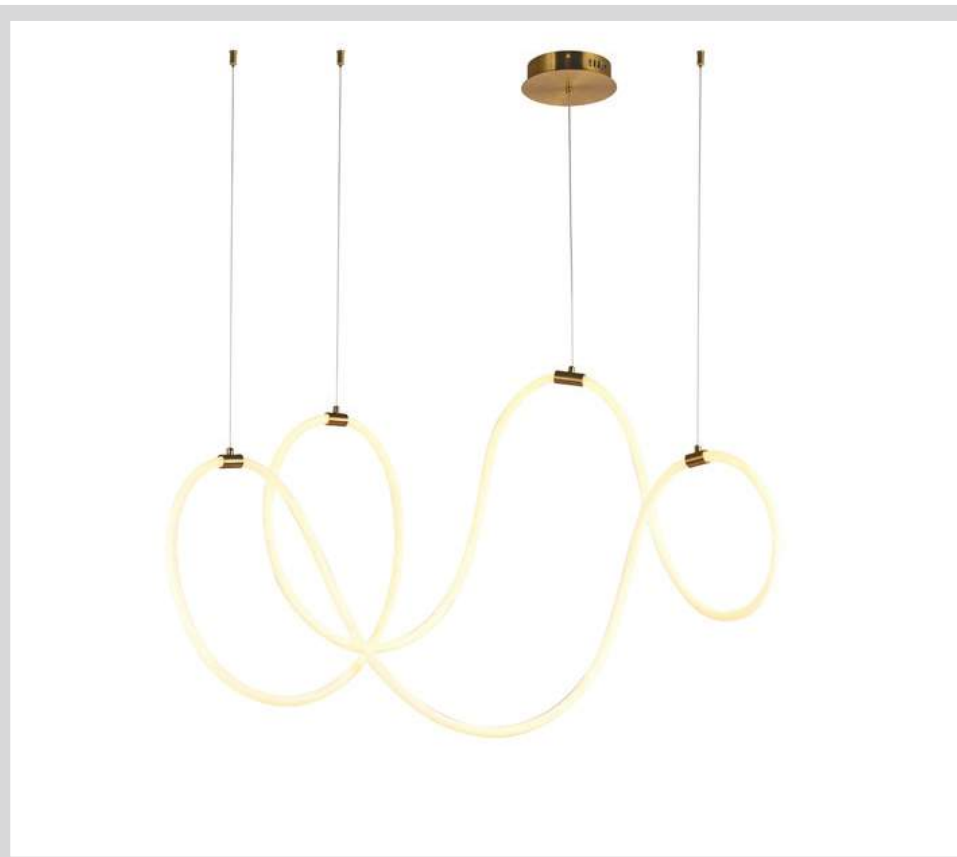
STORAGE CONTAINERS



LIGHTING

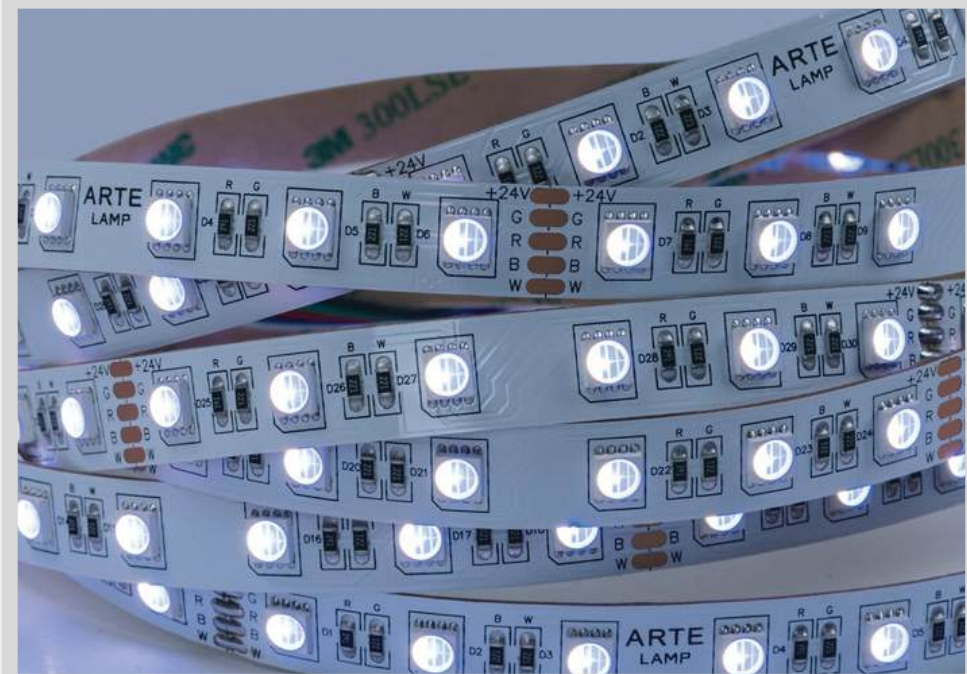


LIGHT FIXTURES



Create the perfect atmosphere and comfort in your dressing room with our wide range of lighting solutions. Light fixtures, LED lighting, spot lighting, and track systems will help you not only illuminate every corner of your space, but also emphasize the style and elegance of your interior. Properly selected lighting will make your dressing room functional and cozy, transforming it into a place where every detail looks its best.

LED LIGHTING



HOME APPLIANCES



Transform the way you care for your clothes with our innovative home appliance solutions. Our ironing appliances, including steam irons and steam stations, will make the ironing process as simple and efficient as possible.

BATHHOUSE/SAUNA

Furniture

1

Textiles

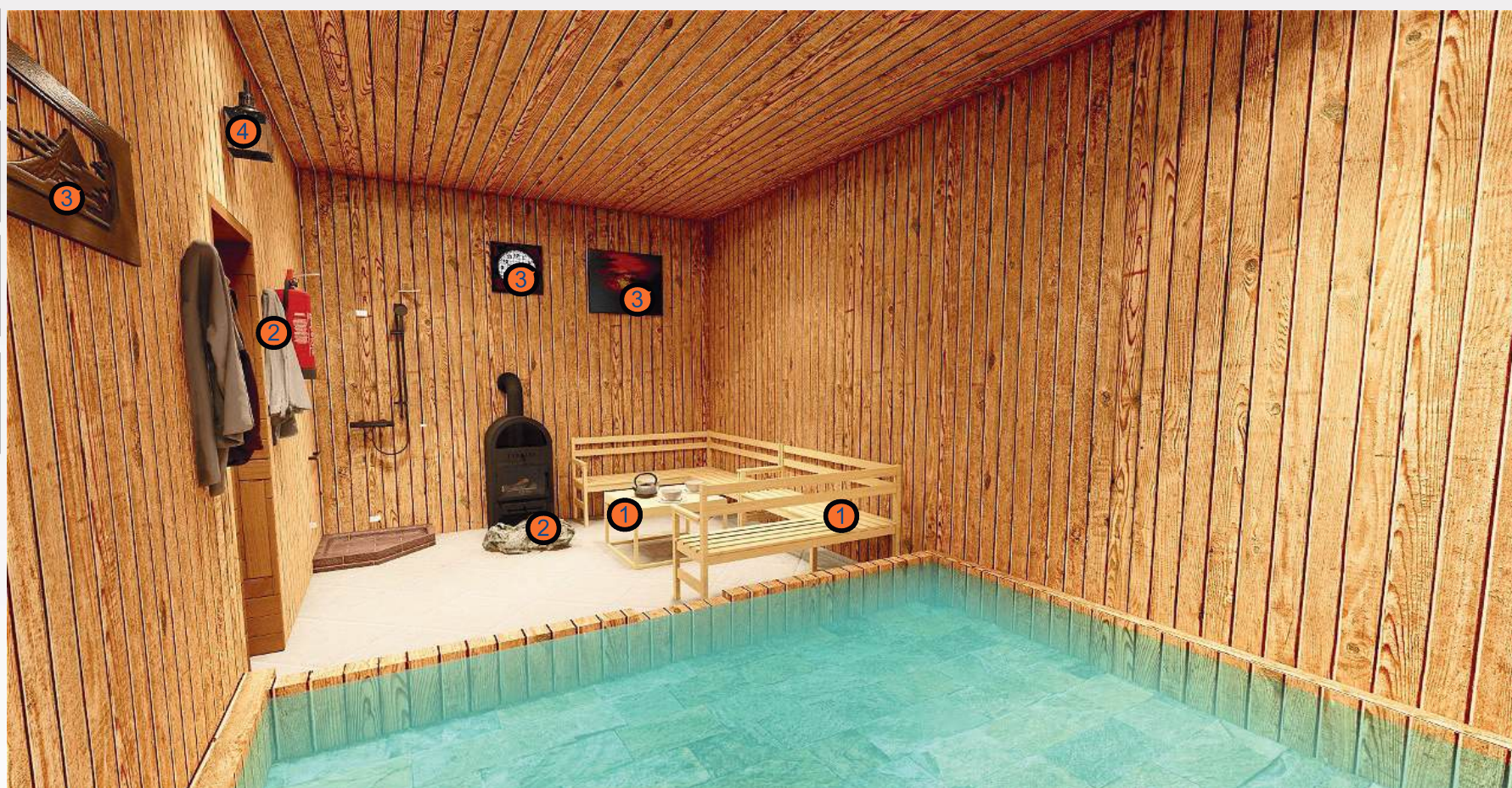
2

Sauna and
bathhouse
goods

3

Lighting

4



BATHHOUSE / SAUNA

FURNITURE FOR SAUNAS/ BATHHOUSES



TEXTILES

GOODS FOR SAUNAS AND BATHHOUSES



LIGHTING

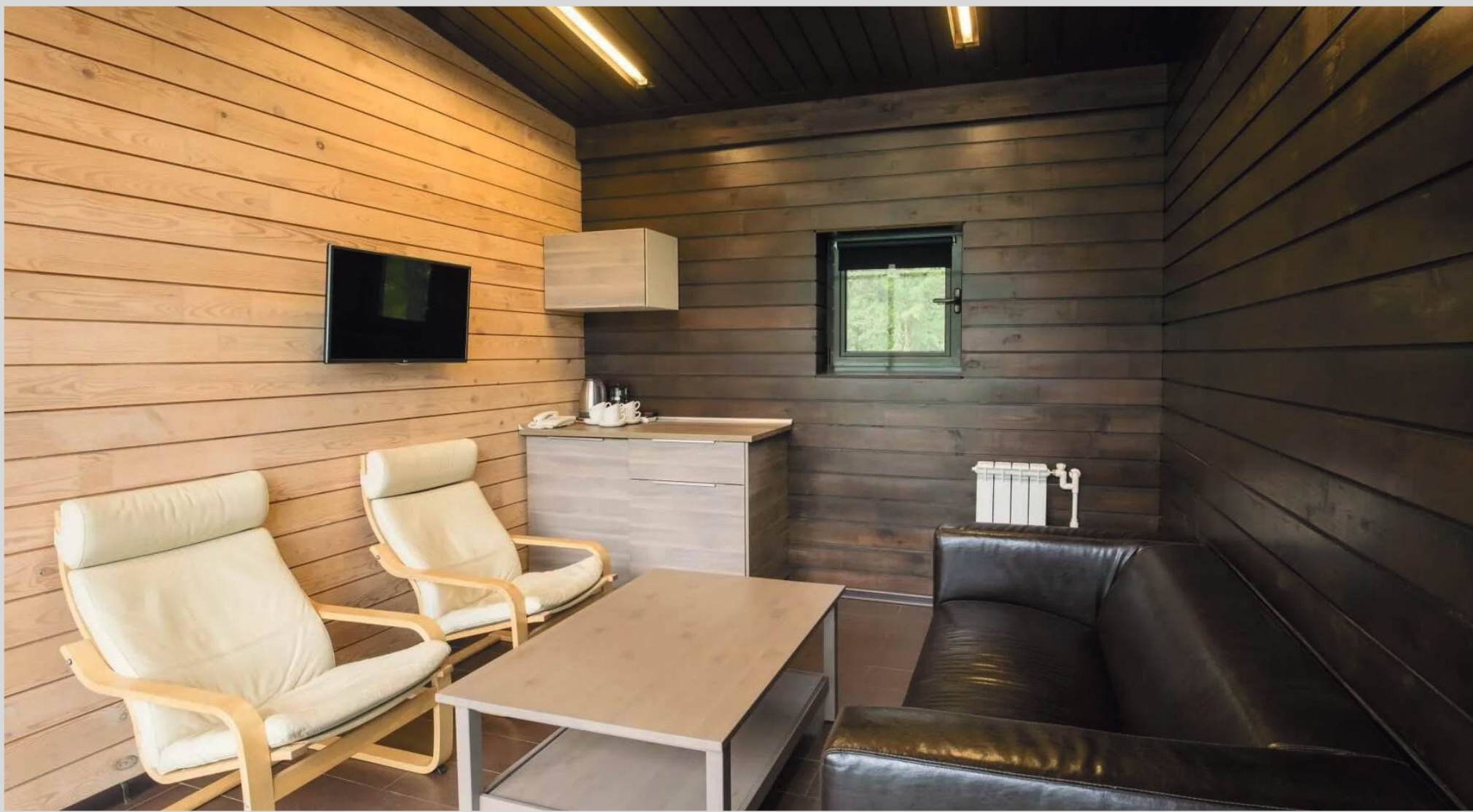


REST ROOM

- Furniture 1
- Textiles 2
- Decor 3
- Storage 4
- Lighting 5



FURNITURE



TABLES, CHAIRS, AND BENCHES



Our tables are the center of attention, offering the perfect place for pleasant gatherings or cozy evenings with a cup of tea. Made from high-quality materials and featuring a refined design, they combine functionality and style, making every moment in your relaxation area special. The chairs and benches in our collection add extra comfort and practicality. Soft and stylish chairs ensure a perfect fit, while elegant benches add coziness and allow you to sit comfortably. These pieces of furniture help create a harmonious space for relaxation and socializing, providing not only visual appeal but also excellent comfort. Choose our furniture and enjoy the perfect combination of style and comfort in your lounge.

SOFAS AND ARMCHAIRS



TEXTILES



LIGHTING



HOME APPLIANCES



Transform your living room into a true oasis of comfort and entertainment with our exclusive collection of home appliances.

TABLEWARE



WINTER GARDEN

- Furniture 1
- Textiles 2
- Lighting 3
- Flowers, planters 4



WINTER GARDEN

A winter garden is a complex specialized engineering structure designed primarily to create and maintain optimal conditions for various plants. A winter garden can also be a wonderful comfort zone for both plants and people—a “green living room” where you can relax and unwind.



FURNITURE



Create the perfect place to relax and find inspiration in your winter garden with our collection of furniture that combines comfort, style, and functionality. Our range includes elegant sofas and armchairs that allow you to enjoy comfort and nature all year round. These pieces of furniture are designed to become the centerpieces of your winter garden, offering both convenience and aesthetic pleasure.

SOFAS



CHAIRS



TABLES



SHELVES AND FLOWER STANDS



LIGHTING



FLOWERS



PLANTERS, POTS, FLOWERPOTS



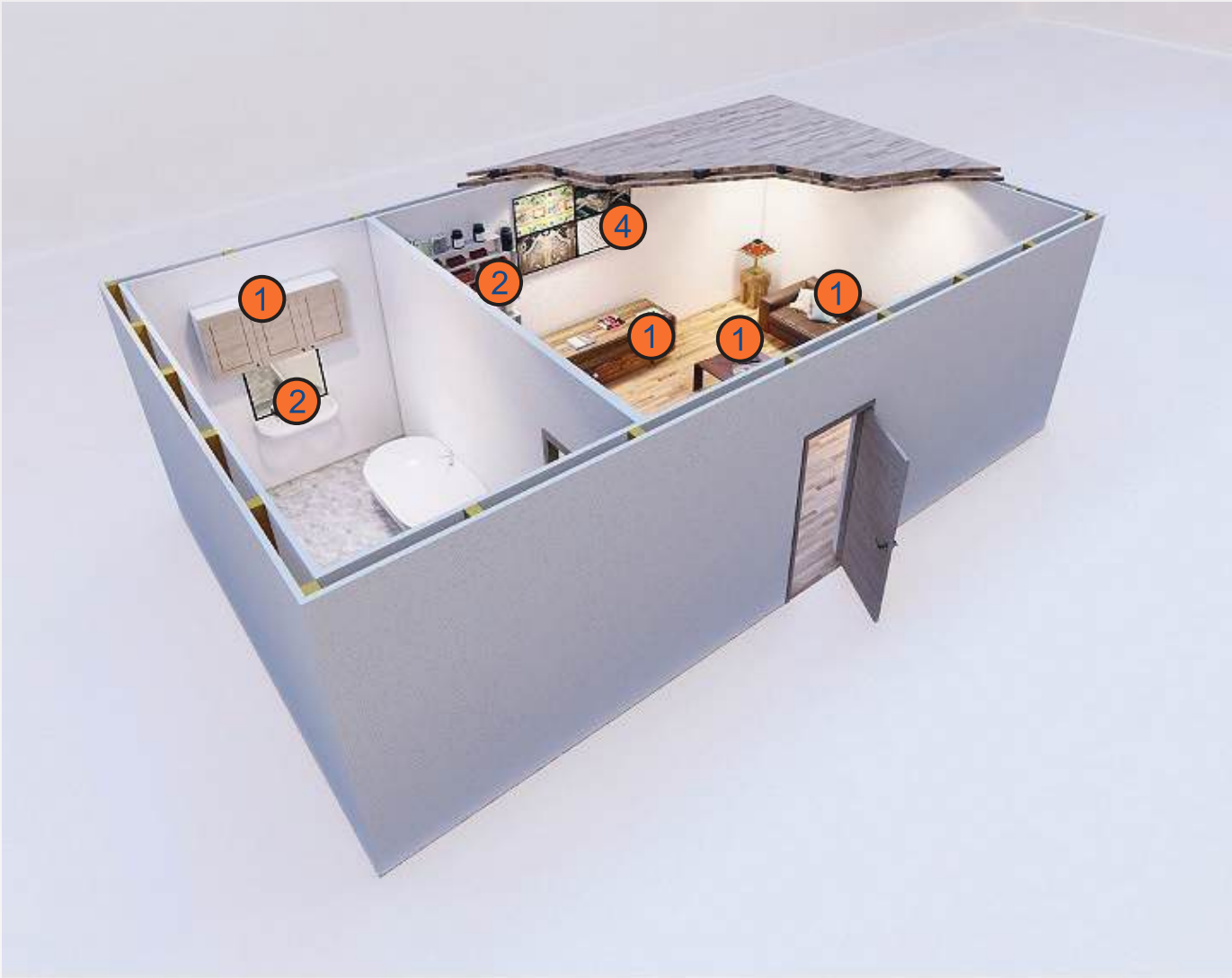
SECURITY ROOM

Furniture 1

Storage 2

Lighting 3

Equipment 4



Furniture 1

Storage 2

Lighting 3

Equipment 4



SAFE ROOM



Safe rooms are usually equipped with basic necessities and survival items such as a flashlight, blankets, a first aid kit, water, packaged food, self-defense items, gas masks, and a simple portable toilet. Safe rooms can be hidden behind many household items, such as mirrors, cabinets, bookcases, sliding bookcases, and even fireplaces. To make your stay in the safe room comfortable, our company offers a variety of products to equip your safe room, such as furniture, textiles, storage items, lighting, appliances, and plumbing fixtures.

FURNITURE



In a safe room, furniture is necessary both for storing life-support supplies, such as food, water, and essential items, and for resting and recovering. Therefore, it is very important that the furniture used for a safe room is reliable, practical, and multifunctional.

STORAGE



LIGHTING

When choosing lighting for a security room, in addition to aesthetic considerations, it is important to focus on models with low energy consumption and a long service life, such as LED and linear luminaires.



EQUIPMENT



At the customer's request, the security room can be equipped with any equipment from our wide range. The most common choices for security rooms are equipment designed for video surveillance, storage, or food preparation. TVs or monitors allow you to view information from surveillance cameras, enabling you to assess the level of external danger and the possibility of safe evacuation. A refrigerator or freezer will allow you to keep food supplies fresh and ready to eat. Our specialists will help you choose equipment for your security room that meets all the necessary standards and your needs.



PLANNING AND DESIGN

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ENGINEERING

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SEWAGE SYSTEM

SMART HOME MANAGEMENT CONTROL SYSTEM
AND SMART SOLUTIONS FOR ENGINEERING



Smart management in engineering is the use of modern technologies and approaches that help optimize the design, construction, and operation of engineering systems. This includes the use of automated control systems, Internet of Things sensors, and other innovative methods to improve the efficiency and reliability of engineering systems.

SMART HOME MANAGEMENT
Control system and smart engineering solutions
Power supply



Smart power management is a system that uses modern technologies and algorithms to efficiently distribute control and monitor electricity consumption. This allows you to optimize energy use, reduce electricity costs, and lower the load on power systems. Smart power management systems can include automatic control, equipment scheduling, real-time energy consumption monitoring, consumption forecasting, and fault prediction. Such systems can be installed in homes and buildings as well as in large industrial complexes and power systems.

TRIGENERATION BY REMOTE MONITORING SYSTEM (RAM) FROM MWM

Trigeneration (CCHP - combined cooling, heat, and power) is the process of simultaneously generating electricity, heat, and cooling. A trigeneration complex is a combination of a cogeneration unit (which generates electricity and heat) with an absorption chiller that produces cold by consuming the heat generated and a small amount of electricity. The MWM Remote Monitoring (RAM) digital system allows the technical condition of the facility to be diagnosed from anywhere in the world in real time, enabling a timely response to any changes.



REMOTE MONITORING OF COGENERATION SYSTEMS

Nowadays, online access to cogeneration plant management via the Internet is no longer a problem. MWM relies on modern VPN channels, as this is more convenient for the customer than access via a modem. The user can set up wireless mobile data transmission independently.



Remote access to power plant equipment management via the Internet is an integral part of MWM's modern service concept. This type of remote service and diagnostics is not entirely new, but it has undergone several stages of technical improvement in recent years.

POWER PLANTS FROM 8.8 KW TO 2500 KW WITH REMOTE MONITORING AND CONTROL VIA GSM CHANNEL

Diesel and gas generator sets are designed for use as the main source of electricity when centralized power supply is unavailable or as emergency power supply equipment in organizations that require a constant, uninterrupted source of electricity.





MONITORING AND CONTROL VIA GSM CHANNEL

Monitoring and control via GSM channel is a technology that uses cellular communication to transfer data between a diesel power plant and an operator's computer/controller. The connection between the unit and the computer is established via a GSM modem connected to the RS232 port. To ensure high-quality communication and data transfer, the "data transfer" (CSD) function must be enabled. Two SIM cards must be installed for this technology to work: one at the facility and one with the operator. This ensures constant communication between the diesel power station and the operator in real time. One of the advantages of using GSM monitoring and control technology is the ability to receive information about the status of the DES systems not only on the operator's computer, but also in the form of SMS messages to a selected phone number.



SOLAR PANELS WITH REMOTE CONTROL ACCESS VIA A MOBILE APPLICATION

"Advanced heterojunction (HJT) technology delivers incredible performance for solar modules. This accelerates project payback and return on investment." Decarbonization Reducing your carbon footprint through the use of renewable energy sources and CO2 reduction measures



WI-FI ENERGY METER

The single-phase and three-phase Wi-Fi energy meter (WEM3080) is a bidirectional Wi-Fi energy meter/ Wi-Fi electricity monitor that can be installed on a DIN rail. This highly integrated power meter with a built-in Wi-Fi module measures data such as single-phase AC voltage, current, power, etc., and transmits it to the cloud via a Wi-Fi network. The WEM3080 can be connected to the Immeter online energy monitoring system with a single button setup. This allows you to easily track, monitor, and analyze energy consumption in your home, business, or factory in real time.



SUPER-EFFICIENT SPHERICAL SOLAR CELLS

Under diffused light conditions, a spherical photovoltaic cell generated approximately 60% more energy than a flat one. The sphere consists of monocrystalline silicon photovoltaic cells, the most common in the modern solar energy industry. Scientists chose them deliberately, as they sought to simplify and reduce the cost of the manufacturing process as much as possible.



V3SOLAR - ROTATING SOLAR BATTERIES

They generate 20 times more energy than their flat counterparts. They are protected from overheating: when in operation, they rotate around their axis to cool the surface and prevent efficiency from dropping.



V3SOLAR - ROTATING SOLAR BATTERIES

They are so flexible that they can be easily rolled up. They can be placed on any surface, regardless of shape. Among their distinctive advantages: 65% lighter than traditional panels; 10% higher efficiency.



SOLAR TILES

Advantages of solar tiles:

- The semiconductor material used to connect the photovoltaic cells has been reduced by a factor of 4.
- An innovative sunlight focusing system allows 5 times more energy to be obtained.
- The average service life of solar tiles is 20 years.
- The relatively low weight of the tiles does not put any negative pressure on the roof.
- The strength of solar tiles allows them to be used in all weather conditions.
- The tiles can easily withstand hail and other precipitation.
- The simplicity of the fastenings allows the tiles to be installed securely in the shortest possible time.



REMOTE-CONTROLLED WIND TURBINES

A wind turbine is a device that converts wind energy into electrical energy or mechanical energy to drive mechanical devices (such as a water pump). The ancestors of modern wind turbines were windmills, and with the development of technology and the advent of the electrical age, windmills were no longer just used to grind grain into flour or pump water, but also to rotate generators that produced electricity.



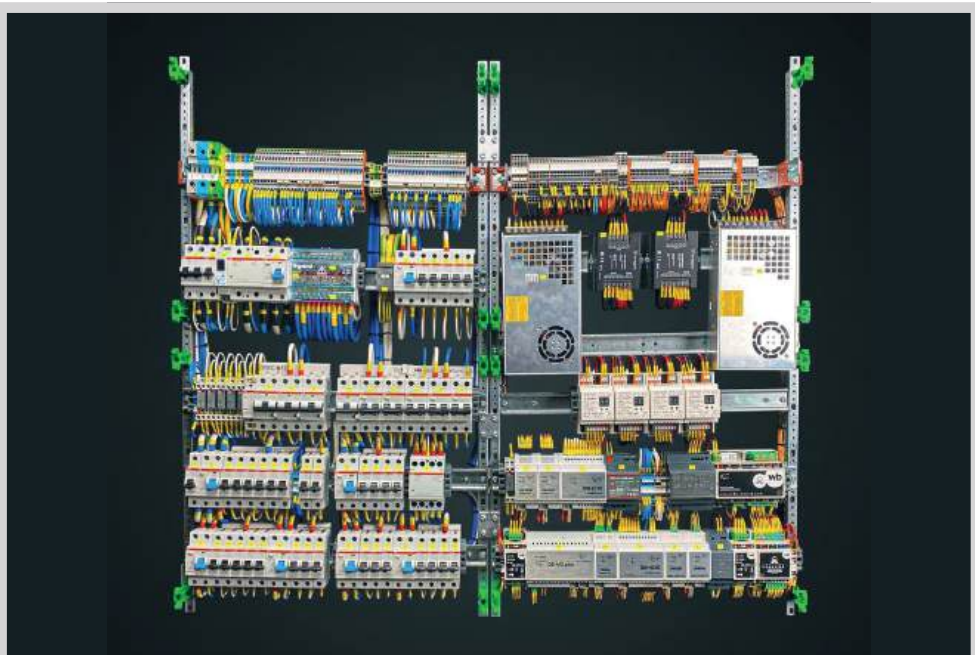
INNOVATIVE VERTICAL WIND TURBINES

A distinctive feature of vertical wind turbines is their high-resistance concave side, which transfers the force of the wind directly to the rotor shaft, which is connected directly to a generator that converts energy into electricity. The resistance force is controllable, and the torque of the turbine can be adjusted by increasing the size of the blades and the distance between them.



CONTROL AND MONITORING

The wind turbine generates energy that is transmitted to a substation and then distributed. On the other hand, everything is controlled remotely via a wind turbine controller connected to the TRB145, a small but powerful 4G LTE serial gateway from Teltonika Networks. This device provides a reliable and stable internet connection and acts as a Modbus gateway between the controller and the control center, where all monitoring and control takes place. The TRB145 industrial gateway is the ideal choice not only because it is equipped with a Serial RS485 interface with Modbus RTU, but also because it is based on RutOS and equipped with advanced features such as OpenVPN, Firewall, IPsec, and more. In addition, this gateway can be managed and monitored via RMS, a remote management system.



CONTROL PANEL, POWER SUPPLY FOR "SMART" HOMES

1. Lighting without brightness control
2. Lighting with brightness control
3. Lighting with DALI control

ELECTRICAL EQUIPMENT (SOCKETS, SWITCHES)



BUILT-IN SOCKETS

Sockets, switches, and contacts should primarily ensure ease of use, but when creating our space, we begin to expect more and more—even from seemingly small, insignificant elements. It is worth remembering that accessories such as electrical equipment can accentuate the entire interior and determine its final look.



SURFACE-MOUNTED SOCKET OUTLETS

«In cases where the wiring is laid externally, surface-mounted structures are installed and fixed to the wall surface. The contact elements are located under the product housing, completely concealing the connector.



SOCKETS WITH ELECTRIC METERS

Sockets with electric meters are designed to measure the power consumption of household electrical appliances. You can enter the price per kilowatt-hour and find out the total cost of electricity consumed by the electrical appliance connected to it, for example, per month.



WIFI MODULE SOCKET

An electrical socket with a built-in WiFi module allows you to control appliances in your home using a smartphone or tablet. Inside the device is a remote-controlled microprocessor that regulates the power supply.



DIMMERS (SWITCHES WITH REGULATOR)

Inside the device there is a resistor that is controlled by a rotary wheel. This mechanism provides incredibly smooth changes in light brightness. Increasing the resistance reduces the current, making the light softer and dimmer, while decreasing the resistance increases the brightness, creating an atmosphere to suit your taste.



SOCKETS WITH BUILT-IN RCD

Designs with a built-in RCD are intended for connecting powerful electrical appliances. They are mainly installed in bathrooms, as high humidity levels increase the risk of electric shock. Thanks to the protective shutdown device, a built-in relay is activated in the event of a leak, opening the input contacts in a timely manner. This not only prevents damage to electrical appliances, but also prevents harm to human health.



ROTARY SWITCHES

Rotary switches are functional and easy-to-use devices designed to control indoor lighting. These switches are equipped with a rotary mechanism that allows you to easily and conveniently turn the light on and off, as well as adjust the brightness according to your needs.



SMART SOCKET WITH VOICE CONTROL WALKER, WH-701, WI-FI, FOR “SMART HOME”

The WALKER WH-701 smart socket for smart homes is the perfect combination of the latest technology and convenience! The socket has all the features you need to comfortably control electrical appliances in your home. Compatibility with Yandex Alisa, Marusya, and Tuya WiFi voice control allows you to control all connected devices with your voice. Thanks to the timer, you can set the schedule for your electrical appliances in advance and control your energy consumption. The device is easy to set up and use. Simply connect the socket to your Wi-Fi network and enjoy the convenience!



SMART SWITCH

Touch-sensitive Smart Wi-Fi switch for your smart home with capacitor included. Stylish and modern design, the front of the case is made of tempered glass. Easily installed on standard socket boxes. It is very convenient to set up various scenarios and control them from anywhere in the world using the Smart Life app. Easy to connect to voice assistants such as Marusya, Google Assistant, etc.

LIGHTING



YANDEX LED SMART BULBS WITH ALISA, E27 BASE, RGB COLOR.

The Yandex Smart Bulb allows you to remotely control the lighting in your room or home. Wi-Fi support allows the lamp to work with the Yandex smart home system and respond to commands given via a mobile app or directly to the Alice voice assistant. You can turn the lights on or off or remotely adjust the lighting with a single phrase.

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Gas supply.

Central gas supply for a private house, with a remote shut-off system

1

Smart remote gas supply system

2



Smart gas management is a system that uses modern technology and smart devices to effectively control, monitor, and manage gas consumption. This helps improve gas supply safety, reduce energy costs, and increase gas efficiency.

SMART WI-FI GAS LEAK DETECTOR

A gas detector is a special electronic device designed to automatically monitor the presence and concentration of toxic, explosive, and flammable gases in a room.

This compact sensor is installed near gas equipment. During operation, it regularly analyzes the chemical composition of the air. If it detects an increased concentration of methane, it immediately sends a signal to the gas alarm system.

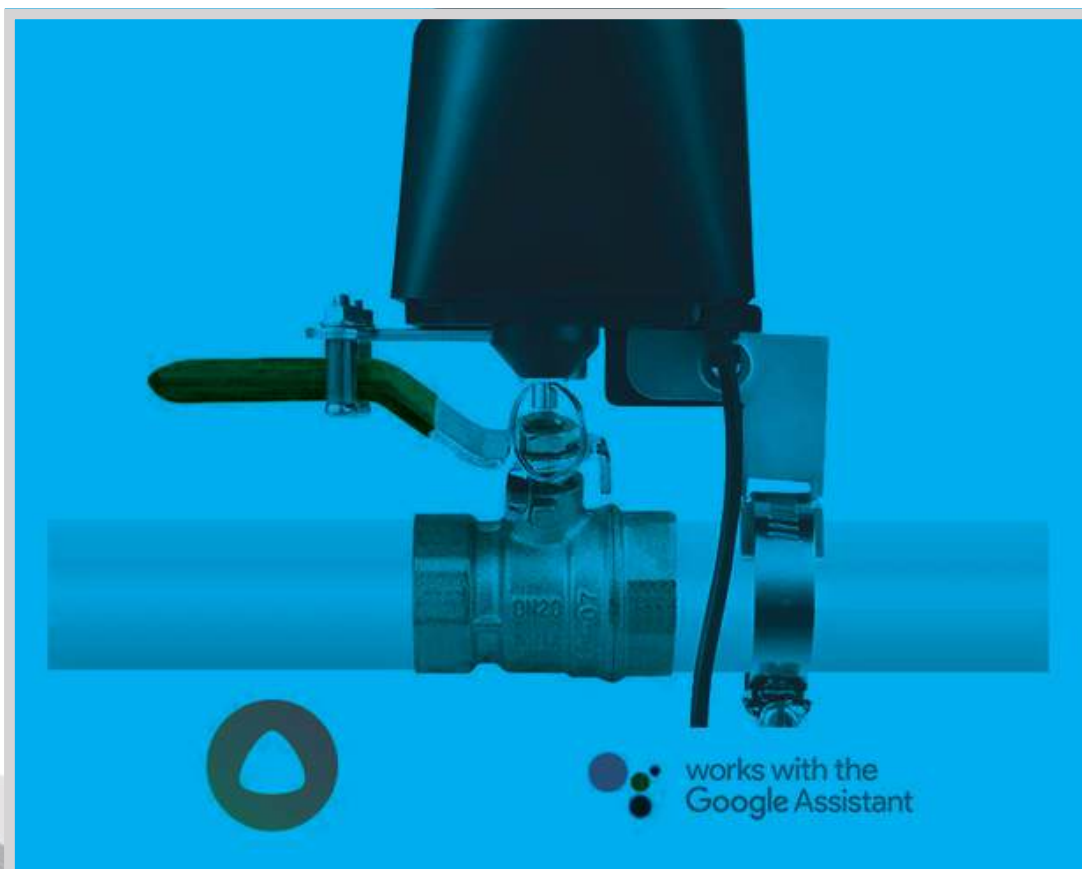
This compact sensor is installed near gas equipment. During operation, it regularly analyzes the chemical composition of the air. If an increased concentration of methane is detected, an emergency scenario is triggered.



SMART ELECTRIC GAS SHUT-OFF VALVE, ZIGBEE, GOOGLE HOME

Smart gas shut-off valve An excellent solution for your home, providing safety and convenience. This valve allows you to fully control the gas in your home.

With Tuya technology support, it works wirelessly and can be integrated into your smart home system, providing security and remote control. The smart valve has a unique WiFi module that provides stable communication at a distance of up to 45 meters. Simple installation and design make it an indispensable element in your smart home.



SMART HOME MANAGEMENT

Control system and smart engineering solutions

Diesel economy

Remote control of
a diesel boiler

1

Remote control of a
diesel generator

2



Smart diesel management involves the use of advanced technologies and methods to optimize the operation of diesel equipment and improve production efficiency. Some of the key aspects of smart diesel management include:

1. Monitoring and diagnostics: Installing sensors and monitoring systems to continuously monitor diesel equipment operating parameters such as fuel consumption, temperature, and pressure.
2. Remote management: Using remote monitoring and management systems that allow operators to monitor and control diesel equipment from any location using mobile devices or computers.
3. Energy efficiency and environmental sustainability: Implementation of energy-efficient technologies and methods, such as the use of alternative energy sources, reduction of emissions, and optimization of diesel equipment operation to reduce negative environmental impact.



REMOTE CONTROL OF DIESEL BOILER

GSM+Wi-Fi control module Ipro "Boiler, OK 3.0" Temperature control. Switching electrical appliances on/off from your phone. Monitoring power supply with notification.

When the power is off, the device runs on a backup battery for up to 24 hours. Apps are available for Android and iOS. To set up the GSM Wi-Fi module, just call the SIM card number installed in the device. The GSM Wi-Fi module is controlled by SMS commands or via a Wi-Fi network from your phone. The device sends a confirmation of each command execution. To find out the temperature in your home, simply call the device or open the app.



DIESEL GENERATOR (DG)

PCM Energy DG3500E and DG6500E frame-mounted (open type) diesel generators are modern autonomous power sources with remote start/stop function. The equipment is manufactured at one of the best specialized enterprises in China using high-quality materials and modern technologies.

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Heat supply

Trigeneration by
a remote monitoring
system

1

Remote control of
gas and electric
boilers

2

Remote control
of solid
fuel boilers

3



Smart heating is a system that uses advanced technologies and algorithms to optimize the heating process in buildings. This improves the energy efficiency of the system, reduces heating costs, and ensures more comfortable conditions for residents. Smart heating can include the use of sensors to monitor temperature and humidity, automation of the heat consumption control process, the use of heating and energy consumption management systems, as well as integration with other smart technologies, such as smart homes or smart cities.



REMOTE CONTROL OF GAS AND ELECTRIC BOILERS

A wireless thermostat for electric and gas boilers with Wi-Fi is a modern and functional device that allows you to maintain the required temperature in the room. With it, you can control your heating boiler from anywhere in the world via the Internet, making it an indispensable helper in everyday life. The thermostat is equipped with touch control and supports various temperature settings and preset values. Thanks to the built-in temperature sensor, the device automatically determines the actual temperature in the room and starts working when necessary. The thermostat has an LCD digital display and supports programming. This allows you to save energy by maintaining the desired temperature according to a pre-set schedule.



REMOTE CONTROL OF SOLID FUEL BOILERS

The YML-C (tr) WiFi 2.4 GHz thermostat for controlling the boiler via the Internet in an Android app and/or Web-int. + SZU 5V Type C The YML-C WiFi 2.4 GHz thermostat is a reliable and convenient tool for controlling the heating in your home. It allows you to control the temperature in your home from anywhere in the world with Internet access. Thanks to the Wi-Fi connection, you can easily set up a heating schedule and receive notifications about any changes in the heating system. YML CONTROL is compatible with a wide range of boiler models, making it a universal solution for any home. Also compatible with Prond Proton/Krypton solid fuel boiler automation and Gradient boiler (terneo BeeRT automation).

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Hot water supply

Smart water
heaterstorage

1

Smart gaswater
heater

2



Smart hot water supply is a system that automatically regulates the temperature of hot water in the home based on the needs and habits of the residents. This not only saves energy but also prevents possible accidents related to overheating or pressure drops in the system. Such systems are usually equipped with sensors and controlled via a special app on a smartphone or tablet. Smart hot water supply makes life more comfortable and safer for residents.



ELECTROLUX EWH 30 SMARTINVERTER SMART STORAGE WATER HEATER

The Electrolux EWH SmartInverter series electric storage water heater with an internal stainless steel tank, inverter control, and maximum energy efficiency class B. All devices in the series are made in Russia using the most advanced technologies on modern equipment and have a premium warranty on internal tanks – 8 years. Digital INVERTER technology This unique technology, implemented for the first time in water heaters, is designed to reduce the load on the electrical network and heating elements by automatically adjusting the power of the heating elements. In other words, the heating elements adjust themselves and heat the water inside the water heater at the power that is objectively necessary at that moment.



SMART GAS WATER HEATER XIAOMI VIOMI INTERNET GAS WATER HEATER WHITE 16L (JSQ30VGW166)

App In the MiHome app, you can set the operating periods of the water heater to avoid prolonged heating and gas overconsumption. The water heater can be synchronized with Viomi smart gadgets. Instant hot water supply Thanks to the circulation pump, the water heater provides sufficient pressure and fast hot water supply. Constant circulation mixes cooled water with hot water, so you don't have to wait long when you turn on the tap. This significantly reduces water consumption and saves on utility bills. The front panel has a display that shows the current temperature.

You will always know the status of the water and won't have to worry about it suddenly running out. The water heater is even suitable for residents of high-rise buildings.

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Cold water supply

- 1 Smart water meter
- 2 Smart water leak sensor
- 3 Water shut-off valve for smart homes
- 4 Universal Wi-Fi system for protection against water leaks



Smart cold water supply is a system that uses modern technologies to optimize water consumption in a home or building. Such systems can automatically control water consumption, set individual settings for each user, detect leaks and warn about them, and analyze data to optimize system performance. Smart cold water supply helps save water, reduce utility costs, and make water consumption more efficient and convenient.



MERIDIAN SMART METERS FOR WI-FI TRANSMISSION (SMART DEVICE + 2 PULSE WATER METERS)

A set consisting of a Wi-Fi controller and two meters with pulse output allows you to automate the transmission of meter readings to the management company. In addition, this module allows you to connect 6 more devices, as it has 8 outputs, which means that you have a complete device for your smart home system. The smart water meter kit also includes a leak sensor — a reliable and effective tool for protecting your home or office from possible leaks.

The sensor is easy to install and requires no special equipment.



AQARA FLOOD SENSOR WATER LEAK SENSOR

The wireless sensor will alert you to water leaks in time and help save your furniture. There are two Steel contacts at the bottom of the sensor. When they come into contact with water, the sensor sends a signal to the Aqara Hub. The hub activates the alarm and sends a notification to your smartphone. The IP67 protection standard means that the sensor is completely protected from dust and water when submerged to a depth of 1 meter for up to half an hour. If you add a smart socket or Aqara switch to the sensor, it can control the valve through which water flows. Then your smart home will not only notify you of an accident, but also shut off the water itself.



BUILT-IN WATER SHUT-OFF VALVE SENSOR FOR SMART HOME WI-FI

The built-in water shut-off valve sensor for smart homes with Wi-Fi is a unique device that allows you to control the water flow in your home or office. This device is equipped with a smart ball valve that can be controlled remotely via Wi-Fi. This means you can open or close the tap without getting up from your chair. One of the main features of this device is its ability to water automatically. With the Wi-Fi auto watering controller, you can set a watering schedule for your plants, and the sensor will automatically open and close the Wi-Fi water valve at the set time.

Wi-Fi-gas leak protection system

QUICK INSTALLATION
5 minutes

EQUIPMENT
DRIVE - 1 PC.
PCSENSOR - 1 PC.



Works
with Alice

Works
with Marusya

UNIVERSAL WIFI WATER LEAK PROTECTION SYSTEM ONVIZ, G 1/2, G 3/4, QUICK INSTALLATION, WIRELESS SENSORS, SMARTPHONE CONTROL, ALISA, MARUSYA

Quick installation! Installs on the tap without dismantling the water supply system! Control from your smartphone, voice assistant Alisa and Marusya! Smart Life and Tuya apps. The Onviz leak protection system is designed for the timely detection and localization of water leaks in water supply and heating systems. The Onviz system will block the water supply until the cause of the leak is eliminated and will notify you of the accident. The Onviz leak detection system provides round-the-clock monitoring to detect and locate water leaks in water supply and heating systems.

The Onviz system will block the water supply until the cause of the leak is eliminated and will notify you of the accident. The Onviz leak detection system provides round-the-clock monitoring to detect and locate leaks in water supply systems in residential and non-residential premises (apartments, houses, cottages, basements). It will notify you and shut off the water supply (antifreeze, antifreeze) using a tap actuator.

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Heating

Smart thermostat
for water-heated boilers
and radiators

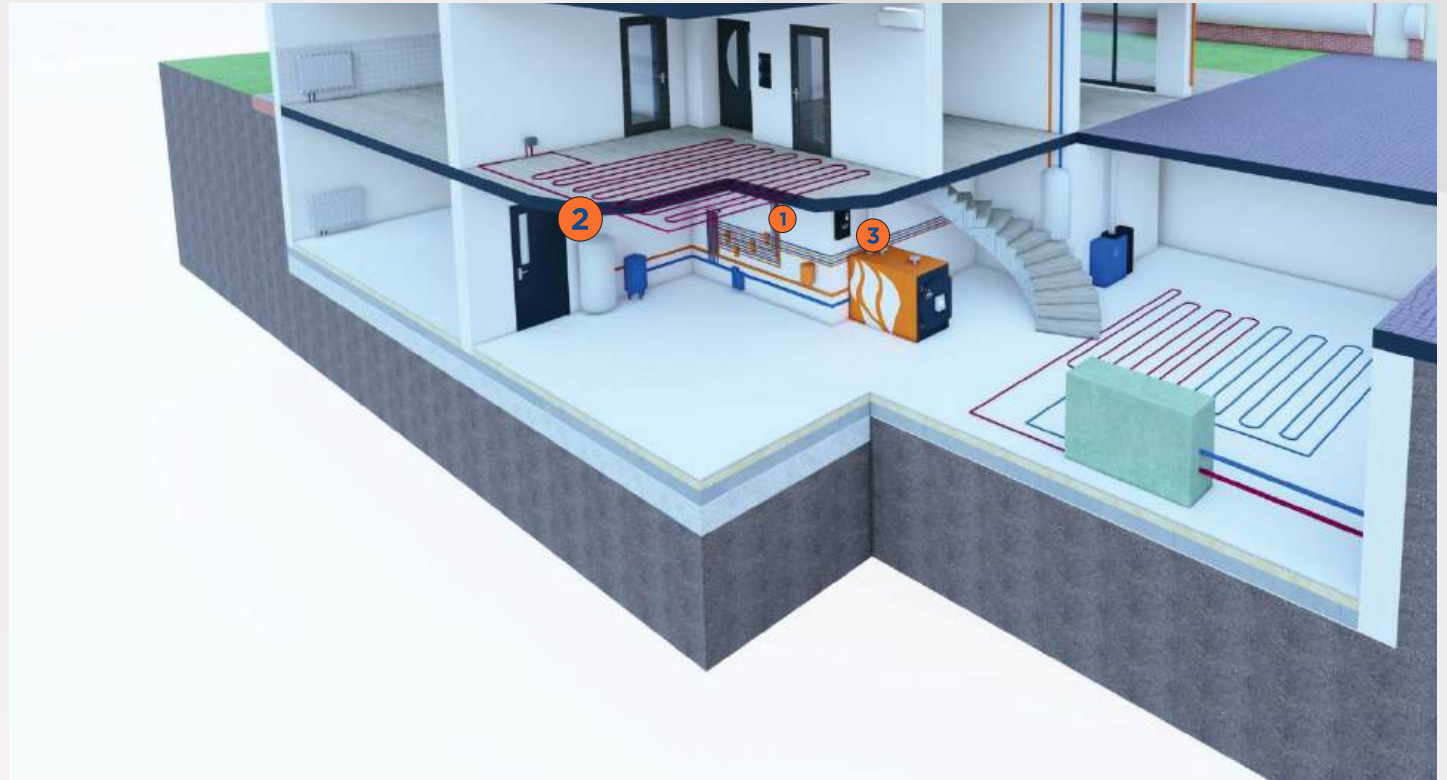
1

Smart thermostat for
electric underfloor
heating

2

Smart
temperature and
humidity sensor

3



Smart heating is an intelligent heating control system that optimizes energy consumption and ensures comfortable and efficient heating of rooms. It typically includes sensors, thermostats, and other devices that automatically regulate the temperature in a room based on external conditions and user preferences. Smart heating can also be integrated with other smart home systems, such as smart lighting and smart locks, to create a unified control system for all devices in the home.

SMART THERMOSTAT, RADIATOR THERMOSTAT FOR ALISA + TUYA ZIGBEE + WIFI GATEWAY FOR WATER HEATED FLOORS AND RADIATORS

With this compact device, users can remotely monitor the temperature in the room and adjust it as needed using an app. The device can also automatically set the temperature depending on the time of day, day of the week, humidity, etc. The device displays the air temperature and the current status of the heating system.

The wireless thermostat is quick and easy to install on a radiator and is powered by 2 AA batteries. A ZIGBEE gateway is required for connection and control. It is included in the package.



The gateway is a device that is necessary for connecting various devices that work with ZigBee technology (sensors, switches, controllers, manipulators). This device enables various interaction scenarios between the devices (thermostats) connected to it.



TUYA SMART THERMOSTAT WITH WIFI FOR ELECTRIC UNDERFLOOR HEATING AND CONVECTORS WITH REMOTE CONTROL FOR GOOGLE HOME, ALEXA, TUYA

The Warm Life programmable touchscreen thermostat with Wi-Fi is a modern device that allows you to control the temperature in your home. It features touchscreen controls and a mirrored surface, making it a stylish addition to any interior. The thermostat can be connected to a smart home system, allowing you to control it using your smartphone or voice assistant. You can customize its operation according to your preferences and create a comfortable microclimate in the room. The device has a wired connection and is plugged into a power outlet.

SENSOR TEMPERATURES



Real-time metrics



Controls the climate system



Temperature and humidity



OWLER SMART CLIMATE SENSOR

The Owl Smart Climate Sensor is a temperature and humidity sensor that provides accurate measurement and control of indoor microclimate parameters. It is equipped with wireless connectivity and works with the Tuya Smart home system. One of the main features of the Owl Smart Climate Sensor is its ability to connect to the internet via your home WiFi network. This allows you to organize security, control, and monitoring of any property using various devices that support an internet connection. The sensor is equipped with a display that shows information about temperature and humidity.

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Ventilation



Smart home ventilation is a system that controls and responds to air exchange inside a room using modern technology. Such systems can automatically regulate air inflow and exhaust based on humidity, temperature, air pollution levels, and other parameters.



SUPPLY AND EXHAUST UNIT UP TO 30M2 WITH WIFI FUNAI KOCHI ERW60X, SMARTPHONE CONTROL

KOCHI (Kochi) is an east wind in Japan. It traditionally marks the arrival of spring and the end of cold weather. Funai Kochi is an innovative heat recovery unit designed to ensure a comfortable and healthy microclimate in your home or office. This smart device performs two functions: it removes polluted air from small work and living spaces (such as apartments and houses) and supplies fresh, clean air from the outside, ensuring comfort throughout the year. The recuperation process, which is at the heart of the device's operation, allows the room to be filled with warm air with minimal energy consumption. The Funai Kochi supply and exhaust unit has two operating modes:

Ventilation mode. The fan operates in supply or exhaust mode at the speed selected by the user. When two units are synchronized, they operate in opposite phases—one in supply mode and the other in exhaust mode. Recovery mode. The fan operates alternately for supply and exhaust, with cycles changing every 75 seconds. In addition, the ventilation unit has a stylish design, LED indicator lights, and fits easily into any interior.



VENTILATION UNIT (HEAT RECOVERY UNIT) ASPIRVELO 2.0 SMART WI-FI AP19992 + CLIMATE CONTROL UNIT

The ASPIRVELO 2.0 SMART ventilation unit is a smart room ventilation unit with heat recovery that controls air quality to ensure well-being, clean air, and comfort in your home. - Remote control via iOS, Android, and Huawei apps. - Weekly programming and voice control with Google Home and Amazon Alexa smart speakers. - Air flow, temperature, humidity, brightness, and volatile organic compound sensors. Automatic mode setting with Smart Auto Sensor. - Night mode, 3 speeds + Boost for fast operation.



VAKIO OPEN AIR WALL-MOUNTED VENTILATOR, VENTILATOR WITH AUTOMATIC SHUTTER, SMART HOME, YANDEX ALISA, APP, F5 FILTER

The Vakio OpenAir wall-mounted ventilator with fan is an effective device for supplying clean air to your home. If you want to solve the problem of dust and dirt getting into your children's room or bedroom once and for all, then Vakio OpenAir is the solution. No more noise from the street, just like when you open a window to ventilate. The supply unit is equipped with effective filters that clean the incoming air of allergens (no more need to close all the windows when the pollen is in bloom). Vakio OpenAir means silence and clean, fresh air even in a city apartment.



XIAOMI MIJIA SMART FREQUENCY CONVERSION LIFTING RANGE HOOD S1 (CXW-120MJ03)

An infrared sensor detects hand movements and allows you to adjust the device with a simple wave of your hand. Easy to use The maximum pressure of the hood is 900 Pa, which ensures intensive operation, and the lower part of the hood can be extended if necessary. Display An OLED display is located on the hood body, showing operating parameters and time.

Effective smoke removal

The hood's intelligent features can precisely regulate the volume of air sucked in. There are double air intake vents in the upper and lower parts of the hood, ensuring high-quality performance.

The hood automatically switches power levels based on data from the intelligent smoke detection system. There are 10 intensity levels and 4 adjustment modes in total.



MULTIFUNCTIONAL AIR QUALITY MONITOR WITH CO2 SENSOR, WEATHER STATION, SMART VENTILATION VAKIO ATMOSPHERE

Weakness, fatigue, drowsiness, headaches—all of these can be the result of elevated levels of carbon dioxide (CO₂) in the room. The VAKIO ATMOSPHERE air quality monitor is a climate device for measuring temperature, humidity, and carbon dioxide levels. The monitor then transmits this data to other devices responsible for the indoor air quality (e.g., VAKIO Window Smart, Base Smart, OpenAir), thereby maintaining the cleanliness and temperature of the indoor air without your intervention!

SMART HOME MANAGEMENT

Control systems and smart engineering solutions

Cooling

Smart inverter
split-system
air conditioner

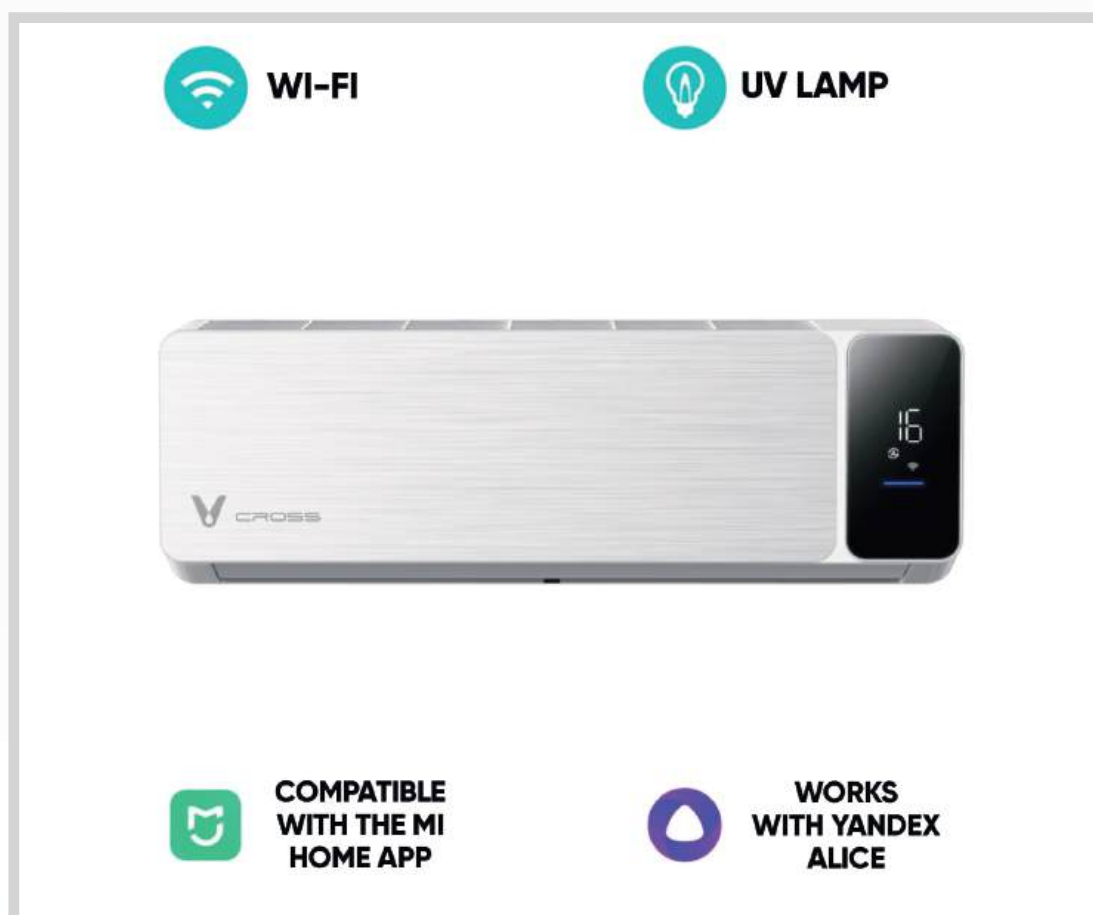
1

Smart
humidifier

2



Smart home cooling is a system that controls the cooling process in a room using modern technology and smart devices. This system can include a smart thermostat that automatically regulates the temperature in the room, as well as smart sensors that can determine when and in which room the air conditioner or fan needs to be turned on. Smart cooling can significantly improve the energy efficiency and comfort of your home, as it optimizes energy consumption and prevents excessive cooling or overheating. In addition, this system allows you to remotely control the temperature in your home using a mobile app, making comfort control even more convenient and efficient.



INVERTER AIR CONDITIONER SPLIT SYSTEM VIOMI CROSS 9000BTU

Intelligent inverter air conditioner with cooling and heating functions and 3D AirFlow technology. The air conditioner's louvers have a golf ball-like texture, a creative design solution that makes the airflow softer. Intelligent cooling and heating. The inverter design allows you to independently maintain the temperature at a set level: once the set value is reached, the air conditioner automatically maintains stable and economical operation, increasing efficiency and extending the service life of the device. Voice control and app control. Viomi's built-in voice control features high recognition speed and quick activation of smart home scenarios. Works with voice assistants Alisa and Google Assistant.

Connects to the MiHome app and is compatible with the latest Android and iOS systems. The photosensitive UV sterilization module has a radiation range of 260 ~ 280 nm.



TIMBERK T-HU4-A100E-WF SMART AIR HUMIDIFIER

Touchscreen electronic control Top water filling without removing the internal tank Capacity - 400 ml/h Tank volume - 4 liters Wi-Fi function for control via app Innovative design - top water filling without removing the lid Scheduled humidification - option to set a schedule via the app Hygostat for humidity level adjustment humidity level Aroma capsule for oxygen enrichment with phytoncides that inhibit the growth and development of bacteria Demineralizing filter cartridge Timer for switching off Three steam flow speeds Night mode for switching off the display backlight Automatic switch-off when no water is present

Smart fire safety is a modern approach to preventing and detecting fires in the home. Using modern technologies and devices such as smart smoke detectors, smart sockets and switches, as well as an automatic fire alarm system, you can ensure reliable protection against fires. Smart smoke and carbon monoxide detectors can automatically activate when dangerous substances are detected in the air and notify you of a potential threat. An automatic fire alarm system ensures a quick response to a fire and calls the fire department, which can save lives and prevent significant property damage.

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Fire safety

- Kitstop fire 1
- Wi-Fi sensor at home 2
- Gas leakage sensor 3



Smart fire safety is a modern approach to preventing and detecting fires in the home. Using modern technologies and devices such as smart smoke detectors, smart sockets and switches, as well as an automatic fire alarm system, you can ensure reliable protection against fires.

Smart smoke and carbon monoxide detectors can automatically activate when they detect hazardous substances in the air and notify you of a potential threat.

An automatic fire alarm system ensures a quick response to a fire and calls the fire department, which can save lives and prevent significant property damage.



FIRE STOP KIT

The fire alarm kit is designed to prevent smoke, fires, and explosions caused by household gas. The brain of the entire kit is the fire alarm controller. It is an electronic device with a processor and smart firmware inside, just like a smartphone. Up to 30 sensors of different types can be connected to it wirelessly. These can be standard radio sensors for household gas, carbon monoxide, and smoke, operating at a frequency of 433 MHz. If your home is gasified, then at the first signs of trouble—smoke, carbon monoxide, or gas in the air—you must quickly shut off the gas supply to the home and completely disconnect it from the power supply. This will be done by the Stop-Beda controller, which will receive a danger signal from one of the sensors and send a command to one or two “mechanical arm” manipulators.

These, in turn, will shut off the gas, and the system can turn off the electric stove. For this purpose, we recommend purchasing a Stop-Beda internet gateway or an alarm system with internet access together with the Stop-Fire device. Not only will they activate a very loud siren in case of an alarm, but they will also notify the owner via push notification, SMS, and phone call. They can also call the fire department.



WI-FI SMOKE DETECTOR, TUYA FIRE SAFETY SYSTEM

1. The smoke detector detects a fire in its early stages and generates a warning signal, allowing the owner to quickly extinguish the fire and protect the room from the effects of fire.
2. The model is equipped with a WiFi module that allows you to integrate it into a smart home system, include it in automation scenarios, and receive notifications on your phone when connected to the Internet.
3. Can be used without a network connection, in which case the device will simply beep loudly and flash an indicator when smoke is detected.



TUYA GAS LEAK DETECTOR WITH DIGITAL DISPLAY, SMART WI-FI GAS LEAK DETECTOR, USB TYPE-C POWER SUPPLY, REMOTE CONTROL VIA APP

Gas leak detector Installation method: wall-mounted / suction ceiling

Operating voltage: 5V

Power supply: Type C

Reminder sound: 90dB

Reminder setting (adjusted via app): 20ppm (default value)

Wi-Fi standard: IEEE 802.11b/n/g 2.4G

Detected gases: natural gas, liquefied petroleum gas, biogas, methane App: Smart Life or TuyaSmart

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Water treatment

Smart water purifier

1



Smart water purification is a water treatment system equipped with modern technologies and features that enable effective removal of contaminants from water, making it safe for drinking and other uses. Such systems often have the ability to monitor water quality, automatically adjust the purification process, and be controlled via a smartphone or other devices. These systems are also generally more energy-efficient and environmentally friendly than traditional water purification methods.



XIAOMI WATER PURIFIER 600G (MR652-B)

With the Mi Home app, you can monitor the filter status, view information about the quality of the incoming and outgoing water, water consumption, and other data. 6 levels of filtration The six-stage purification system includes 2 filters — a PPC composite filter and a RO 600H reverse osmosis filter. The composite filter removes large impurities, rust, and residual chlorine from the water, prevents sediment from forming on the reverse osmosis filter, and extends its service life. The RO filter provides high-precision filtration of particles as small as 0.0001 microns, removing harmful substances, viruses, bacteria, heavy Steels, antibiotics, and organic substances from the water. Its service life is 3 years.

Performance The ratio of waste water to clean water is 2:1, with a performance of up to 68.5%. The clean water flow rate of 1.58 L/min allows you to fill a 150 ml glass with water in just 5.7 seconds.

SMART HOME MANAGEMENT

Control system and smart engineering solutions

Sewage system

Smart septic tank for the home

1



A smart home sewage system is a wastewater management system that ensures more efficient and convenient use of sewage pipes in the home. Such systems can include various features, such as:

1. Smart sensors and monitoring: sensors installed in the home's sewer system can monitor wastewater levels, pressure, and temperature, detect leaks, and prevent them.
2. Water purification system: smart sewerage systems can be equipped with integrated water purification systems that allow wastewater to be purified before it is discharged into water sources.
3. Remote control: The sewer system can be monitored and controlled remotely via a mobile app or web interface. Smart sewer systems for homes can help make the use of sewer systems more convenient, safe, and environmentally friendly.



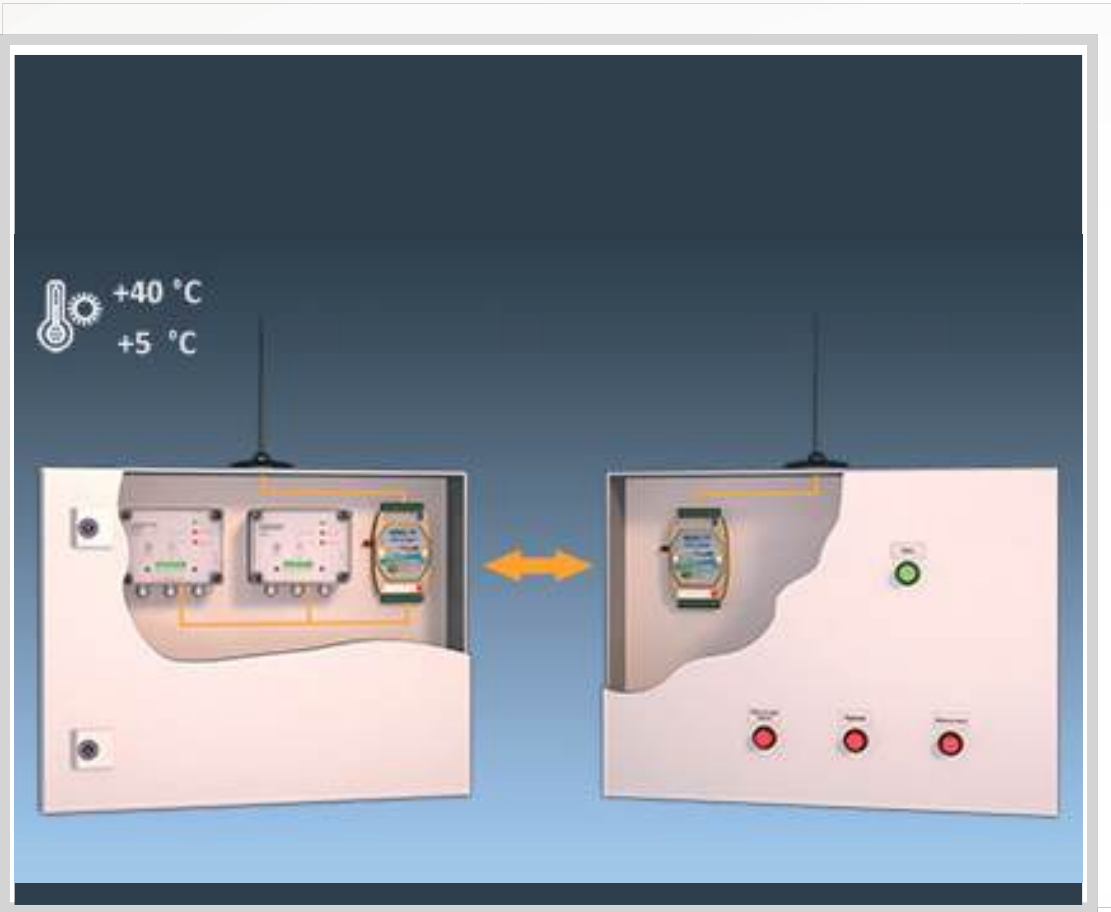
SMART SEPTIC TANK FOR THE HOME

Modern septic tanks for private homes completely solve the problem of lack of sewage systems in rural areas. These devices provide high-quality processing and purification of household waste with complete decomposition of all organic compounds. The purified liquid can be used for technical purposes in the garden, for example, for watering plants. Modern high-tech sewage systems allow you to achieve the maximum level of wastewater treatment, reaching 98%.

Absolutely any modern septic tank with biological treatment can be improved and modified by installing additional smart sensors that allow you to:

- monitor any leaks;
- optimize the operation of the biological station;
- prevent overflow;
- integrate the septic tank into an existing smart home system;
- track the current sludge concentration, temperature, and oxygen pressure in the chambers supplied by the compressor;
- receive notifications on your phone in the event of any malfunctions.

STORM WATER MONITORING SYSTEM



GSM-LC/(X) INSIDE/OUTSIDE MONITORING SYSTEM

A ready-made solution based on the MMG-77 GSM modem Armatech offers a complete GSM-LC/(x) inside/outside technical solution for remote monitoring of storm water treatment facilities. This solution operates via a GSM channel based on the MMG-77 GSM modem with LC2-1 level alarms installed, requires no configuration, and is ready for operation immediately after installation. The GSM-LC/(x) inside/outside system is designed to collect and transmit data on the operation of storm water treatment facilities to a control panel, which can be installed at any distance from the cabinet with alarms. Service personnel will be promptly informed of the need to clean the treatment facilities from bottom sediments or overflow of the grease-oil-gas separator, as well as a decrease in the efficiency of the sorption units.



PLANNING AND DESIGN

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GENERAL CONSTRUCTION

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ENGINEERING

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INTERIOR CONTENTS

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SMART HOME MANAGEMENT AND PROJECT MANAGEMENT

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HOUSE EQUIPMENT, PROJECT EQUIPMENT

pp. 242-244

KITS HOUSES



A kit houses is a unique construction kit that contains all the necessary elements for quick house building. The main components of such a kit are wooden beams and sandwich panels. A ready-made house kit is a typical frame house design

DIFFERENT TYPES OF KIT HOUSES



It is characteristic that each detail of the house kit made at the factory is marked with a specific serial number for convenience. These numbers are used in the drawing to make it clear where, how, and in what sequence to assemble. The walls made of SIP panels are quite light and thin, so the entire house kit can be delivered in one trip if the area of the house does not exceed 200 square meters. Since this is a ready-made kit, this eliminates the unpleasant need to purchase additional building materials during the construction process.



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