

# DREAM HOUSE HZMAAKANA

Our goal is to ensure that every Maldivian has the opportunity to build their dream home affordably and create a healthy, private space for their family. Hzmaakana is committed to making a lasting impact by providing durable, prefabricated steel houses that stand for 100 years at affordable rates. Everyone deserves a place to call home.

WWW.HZMAAKANA.COM



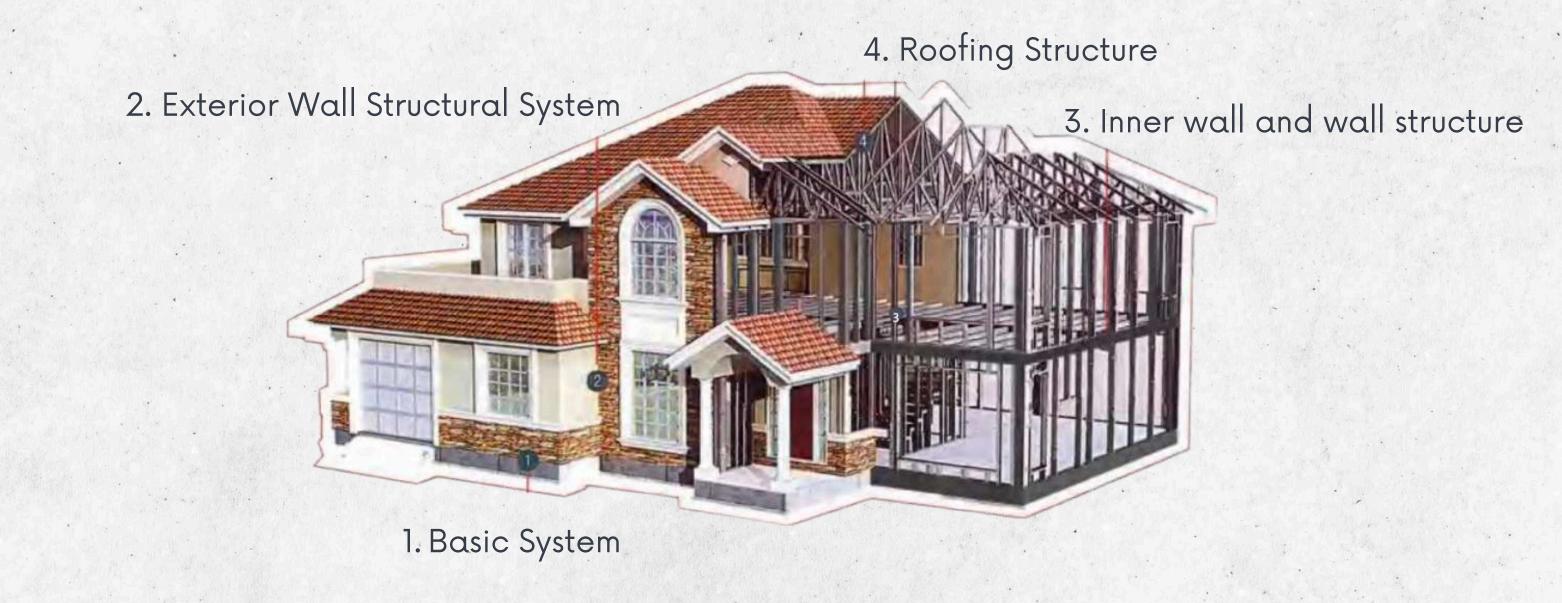
## **Our Source**

Established in early 2019 with a registered capital of 50 million RMB, this privately-owned joint-stock construction and renovation enterprise operates under provincial supervision. It employs over 700 staff and holds qualifications for various engineering and construction projects, including building, municipal, steel structure, decoration, landscaping, curtain walls, environmental protection, lighting, highways, antique-style buildings, electrical, earthwork, fire protection, water conservancy, foundations, and intelligent building systems.

Additionally, it is involved in mechanical and electrical equipment installation, machinery leasing, and construction labor subcontracting. It has earned multiple industry certifications and was recognized as an outstanding and advanced private enterprise in Hubei Province. In 2020, it contributed to the construction of Leishenshan and Huoshenshan Hospitals.

## **Prefabricated Steel House**

The prefabricated heavy steel House utilizes integrated heavy steel assembly technology, significantly enhancing its load-bearing capacity and structural flexibility. It consists of four main systems: the load-bearing structure, exterior wall structure, interior wall structure, and roof structure. With scientific design and innovative technological upgrades, this construction method creates buildings that better align with the aesthetics and functionality of modern living.



## **House Structure**



#### **Load-Bearing Structural System**

The frame system is custom-built using cold-formed rectangular sections and hot-rolled H-beam steel, offering excellent load-bearing performance. Structural components are made from high-strength galvanized steel and treated with advanced anti-corrosion materials to effectively enhance durability. These steel components are prefabricated in the factory for quick and easy on-site assembly. The structure features lightweight yet high-strength properties, superior corrosion resistance, and excellent seismic and hurricane resistance.

#### **External Wall Structure System**

The structure is built using aerated concrete blocks. The general mass of aerated concrete blocks ranges from 500-700 kg/m³, which is only equivalent to 1/4 - 1/3 of clay bricks and sand-lime bricks and 1/5 of ordinary concrete, making it one of the lighter types of concrete. It is suitable for high-rise building infill walls and load-bearing walls in low-rise buildings.

The overall appearance of aerated concrete blocks is lightweight and porous. They possess excellent thermal insulation, sound absorption, and noise reduction properties, as well as Class A fire resistance. The material is nailable, drillable, cuttable, and has strong seismic resistance, making aerated concrete blocks an excellent new building material.





## **House Structure**



#### **Roof Structure System**

The roof truss is composed of various light steel components, typically in triangular or T-shaped designs, allowing for the flexible creation of complex roof shapes. The roof is covered with colorful glazed tiles, offering excellent waterproofing performance while highlighting aesthetics and quality. Similar to the wall system, the roof can be customized with varying thicknesses and structural forms of waterproof and insulated materials to ensure warmth in winter and coolness in summer, depending on the regional climate and temperature.

#### **Interior Wall Structure System**

The interior walls are constructed using aerated concrete blocks, enhancing thermal insulation, fire resistance, and soundproofing. The lightweight nature of the materials significantly reduces the weight of the wall panels, further improving the overall seismic resistance of the building.







### Seismic Safety, Aesthetic, and **Durability**

The building utilizes a prefabricated heavy steel structure with walls connected by high-strength bolts, grouting, and shear keys, ensuring seismic resistance up to magnitude 9. The energy-efficient composite insulation panels are molded in the factory and do not require on-site tiling. These panels are durable, long-lasting, and resistant to peeling.



#### Fire-Resistant and Flame Retardant

The IEC "embedded" wall panels prevent steel components from being exposed, enhancing the building's fire resistance and corrosion protection. The fire resistance of the building structure can reach ensure the exterior walls are waterproof. up to 4 hours, ensuring the safety of both the building and its occupants.



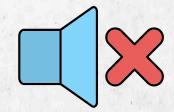
### Thermal Insulation, Warm in Winter, Cool in Summer

The composite insulation exterior wall panels offer superior insulation with a low thermal conductivity of 0.220-0.330, providing six times the insulation efficiency of traditional brick walls. This results in over 70% better energy savings compared to conventional brick construction.



#### **Waterproof and Moisture-Proof**

building features The high-density components for water resistance, with MS waterproof sealant applied to joints to The gutter system allows for smooth drainage, preventing water accumulation and seepage, keeping the interior dry and comfortable.



### **Soundproofing and Noise Reduction**

Using patented closed-cell foam technology and a soundproofing structure layer, the 120mm thick energy-efficient insulation wall panels provide superior sound insulation, surpassing the performance of 370mm thick brick walls. The exterior wall achieves a soundproofing level of over 40dB.



### **Green and Energy-Efficient**

Factory-prefabricated components resources and are highly recyclable. The flexible design offers diverse appearances, focusing on safety, aesthetics, functionality, and environmental sustainability, resulting in a comfortable and livable space.

## **House Features**

- Seismic Resistance: The structure can withstand rare earthquakes of up to magnitude 9 and is suitable for regions with high seismic intensity.
- Wind Resistance: It can resist hurricanes with wind speeds of up to 70 m/s, equivalent to a level 16 wind resistance.
- Durability: The main structure has a lifespan of over 100 years.
- Fire Resistance: The fire resistance time varies based on the design, but it can last between 1 to 4 hours, depending on the specific requirements.
- Sound Insulation: The external walls provide excellent sound insulation, reducing noise by up to 65 dB. The internal walls offer 45 dB of sound insulation.
- Thermal Insulation: The 200 mm thick composite walls have a thermal resistance value of 3.2 m<sup>2</sup>K/W, which is 11 times more effective than a similarly thick brick wall.
- Environmental Protection: Steel structure materials are fully recyclable, and most of the other materials used can also be recycled.
- Energy Efficiency: The use of new heat-insulating materials makes this building 65% more energyefficient for heating and cooling compared to traditional buildings.
- Space Efficiency: Light steel integrated housing offers 5% to 15% more usable space compared to traditional buildings.
- Faster Construction: The modular design and standardized assembly process significantly speed up construction, reducing the building time by two-thirds compared to conventional methods.

## Lightweight and convenient

The materials used in the structure are strong yet lightweight, with a thin profile that reduces the amount of steel required. For low-rise buildings, the steel usage is typically less than 30 kg per square meter, while multi-story buildings usually use up to 40 kg per square meter. The overall weight of the house is about one-fifth that of traditional brick and concrete structures. This lighter weight results in lower transportation and lifting costs, and the reduced foundation load helps decrease foundation costs as well. The structure's minimal foundation requirements make it especially well-suited for challenging terrains like mountains, riverbanks, sandy areas, and islands.

### Safe and durable

The light steel villa features a wall body, roof frame structure, and internal and external panels made of a strong ribbed plate system. This design significantly improves the structure's ability to resist both horizontal and vertical loads, enhancing its seismic and wind resistance. It has been proven to withstand earthquakes of up to magnitude 9 and hurricanes of magnitude 12 or higher.

The structural components are made from hot-dipped galvanized steel, and the use of self-tapping screws instead of welding ensures the integrity of the zinc coating is maintained, offering excellent corrosion resistance. Additionally, all the structural parts are enclosed in an impermeable gas, and the composite wall prevents corrosion, mildew, and damage from pests. This ensures that the building can last for more than 100 years.

## Energy conservation and environmental protection

Light steel structure can be 100% recycled, hidden

Steel is of great significance to the people. Excellent performance of the wall, the house

Face combination scheme to provide excellent insulation, sound insulation, Waterproof performance, compared with the traditional brick and concrete structure of energy consumption reduction

65% Less



## High prefabrication degree and provincial labor level

The whole light steel inherits all the building materials of the house can be Realize the factory mass production and prefabrication, mechanization degree

High, there is no wet field operation, the real realization of residential workers Industry

## high quality, high comfort level

The use of high-quality thermal insulation, soundproofing, and energy-efficient materials significantly enhances the indoor living comfort of the house. The built-in pipelines and thinner walls effectively increase the usable space, offering more than 10% additional area compared to traditional brick and concrete buildings. Additionally, the unique flexibility of the steel structure allows for a wide range of complex, diverse, and aesthetically pleasing building designs.

## Mature technology and perfect matching

Through the introduction of advanced technology and years of practical experience, our company has developed a comprehensive and mature system in technology, construction, quality management, and after-sales service. This has enabled us to establish a stable and complete supply chain for supporting materials, ensuring consistent and reliable service at every stage of the process.



## The basic concept of sound insulation design

Sound insulation in light steel structures follows the law of mass, where heavier materials provide better noise reduction. Decibels (dB) measure sound levels, with higher ratings indicating better insulation.

Key Soundproofing Measures:

- 1. Sound-Absorbing Materials Reduce echo and absorb noise.
- 2. Sound-Insulating Materials Block sound transmission.
- 3. Structural Design Techniques Enhance overall noise reduction.

These measures ensure a quieter and more comfortable living environment.

## The principle of sound transmission

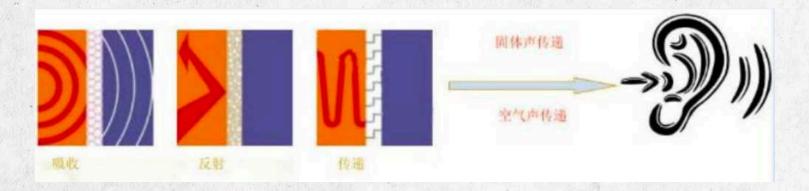
Sound originates from vibrations and travels in waves, requiring a medium (such as air, water, or solids) for transmission. When sound reaches the boundary between different materials, it can undergo transmission, reflection, or absorption, depending on the properties of the materials involved.

## Gas and Sound Partition Measures in Light Steel Villas

The wall structure consists of five layers of different materials, with each contact surface between different materials helping to reflect and absorb sound.

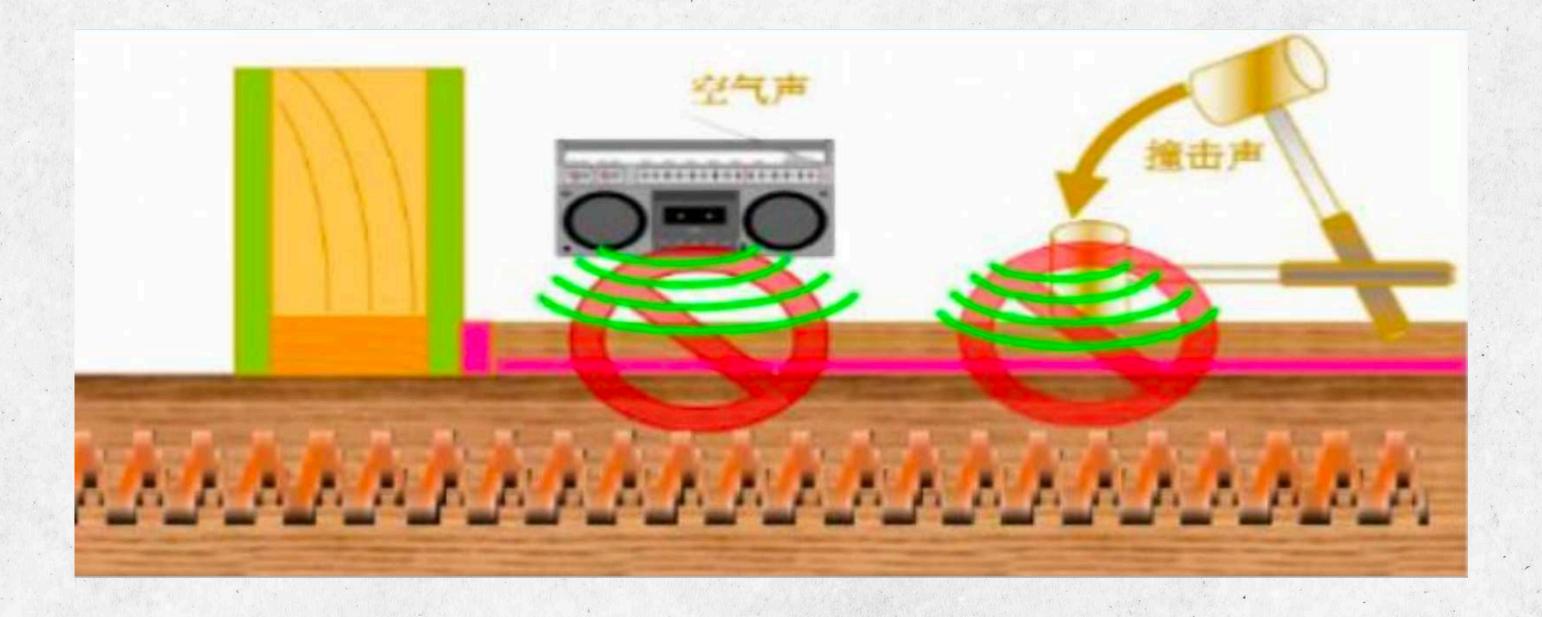
The middle layer contains thermal and sound insulation materials, which are soft and can absorb up to 80% of acoustic energy in the 250–1000 Hz frequency range. This design enhances both soundproofing and thermal efficiency, creating a quieter and more comfortable indoor environment.





## Impact Sound Insulation Measures in Light Steel Villas

Elastic surface treatment helps reduce the noise generated by vibrations during impacts. By adding an elastic cushion between surfaces and the structure, it absorbs some of the sound energy, reducing the overall noise. Additionally, floor and ceiling insulation uses air gaps to isolate sound, minimizing the solid noise produced when the floor is struck and vibrates.



## Introduction of the construction process

#### **Foundation Construction Process**

#### Function:

The foundation is responsible for transferring the load of the walls or columns to the ground, ensuring the structure can meet the necessary bearing capacity and deformation requirements.

#### Features:

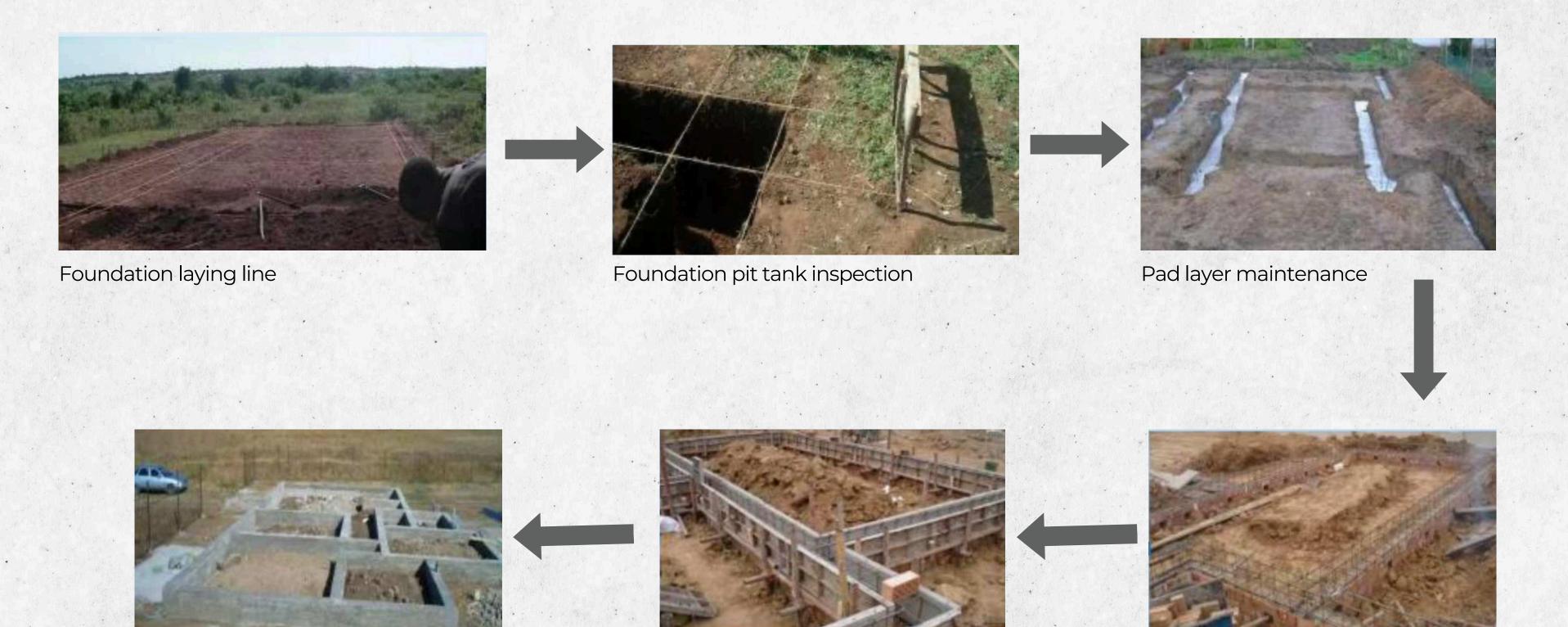
The foundation in light steel villas is significantly lighter compared to traditional brick and concrete structures, being about 1/5 the weight of a brick-and-concrete structure and 1/8 the weight of a concrete building. This lightweight design reduces both cost and construction time, making the process simpler and faster.

#### Classification:

The foundation type is chosen based on the geological conditions, with common types including strip foundation, plate foundation, and raft foundation. For most cases, a strip foundation is typically selected.

#### Construction Process:

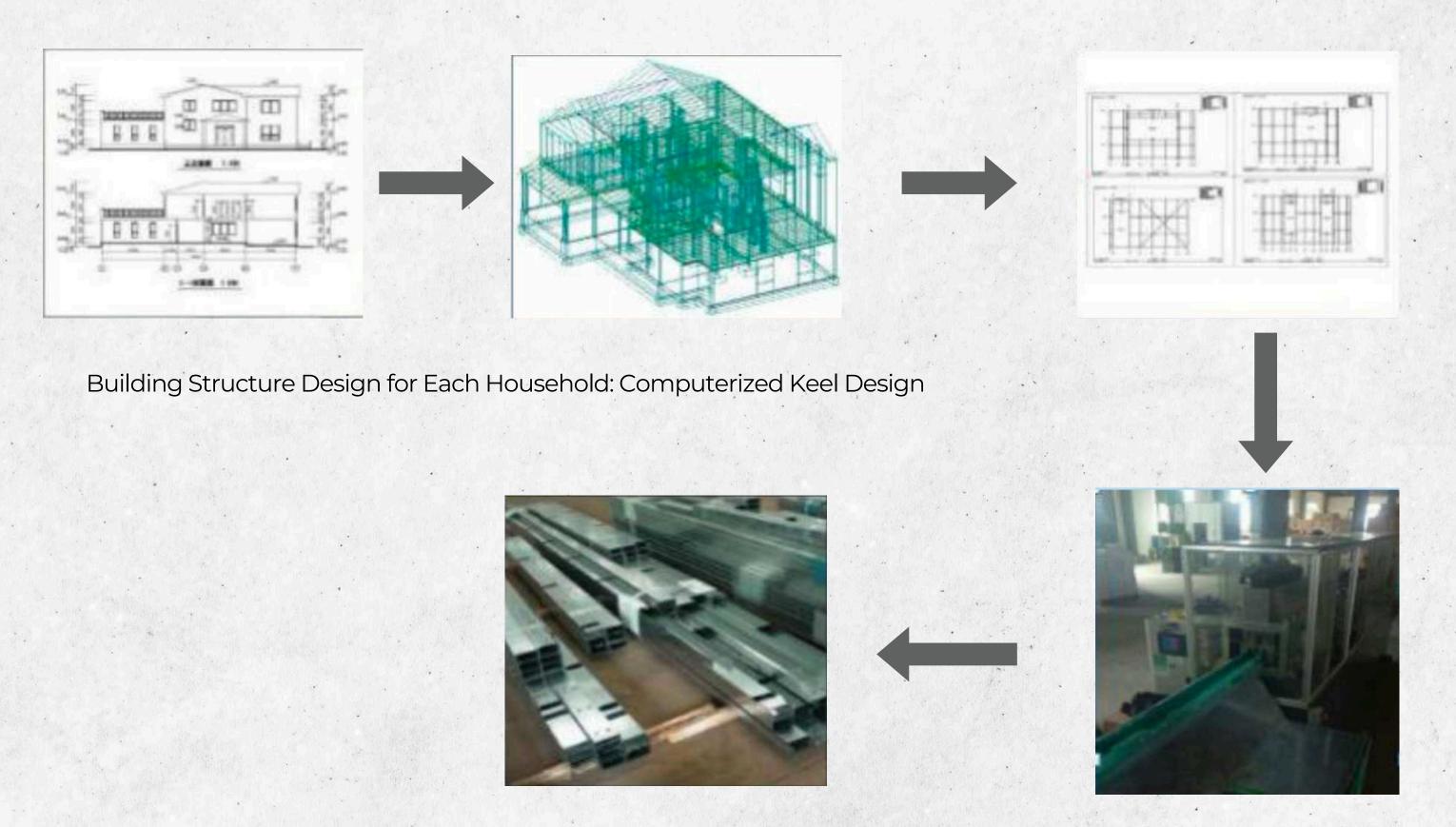
- 1. Foundation Pit Layout: Marking and digging the foundation pit to prepare for the next steps.
- 2. Grooving: Excavating and shaping the grooves as required for the foundation.
- 3. Laying the Cushion: Pouring and curing a base layer (usually sand or gravel) for stability.
- 4. Positioning and Layout: Marking exact positions for the foundation components.
- 5. Red Brick Construction: Constructing brickwork or supports around the layout area.
- 6. Steel Bar Construction: Installing the necessary reinforcement steel bars for strength.
- 7. Formwork and Embedded Parts Installation: Installing formwork to shape the concrete and placing embedded components like pipes.
- 8. Concrete Pouring and Formwork Removal: Pouring the concrete and removing the formwork once it has cured.
- 9. Water and Electrical Pipeline Embedding: Installing necessary plumbing and electrical lines within the foundation.
- 10. Indoor Ground Concrete Pouring: Pouring a 15 cm thick layer of concrete, with a polyethylene plastic film as a moisture-proof layer on top. This method ensures a solid and stable foundation that can support the rest of the structure.



Foundation pouring

Foundation formwork Reinforcement construction

## Light steel design and production process



Production Component Packaging and Light Steel Keel Production

## **Construction Process of the Theme Structure**





Installation completed

Roof Installation and Waterproof Work

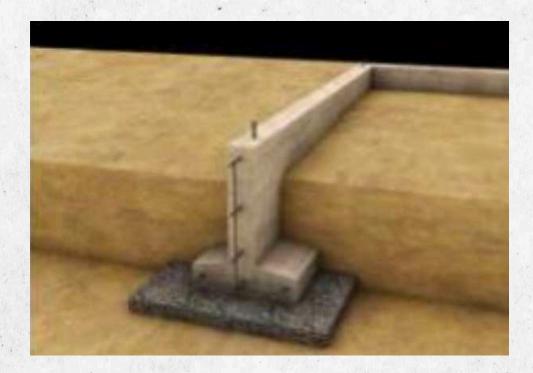
## Review

The light steel house is a modern and efficient construction system made up of several components: the structural system, ground system, floor system, wall system, and roof system. Each of these systems consists of various unit modules, which are prefabricated in a factory and then assembled on-site.

The main bearing structure of the light steel house is made from cold-rolled, hot aluminum-plated zinc thin-wall steel, ensuring a strong and durable framework. This structure is complemented by materials that provide insulation, soundproofing, waterproofing, and fire resistance, creating a well-rounded, energy-efficient, and environmentally friendly building.

The modular components of the house are produced in large quantities at the factory, and only the assembly process takes place on-site. This factory-prefabricated approach to construction allows for faster, more efficient building with reduced on-site labor, making it a modern and scalable solution for housing. This method has become a widely accepted practice and represents the future direction of residential construction.

## **Basic Foundation System**



Bar Basics

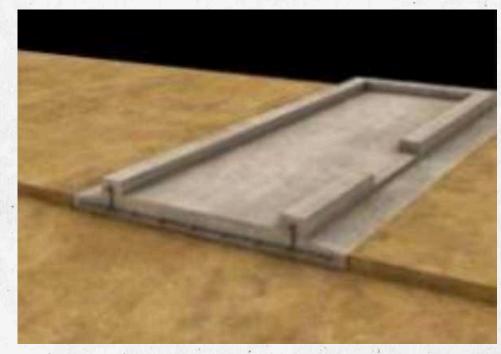
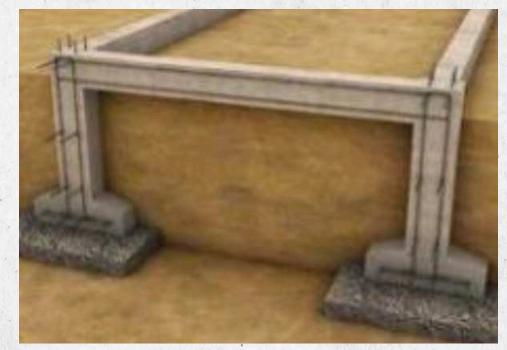


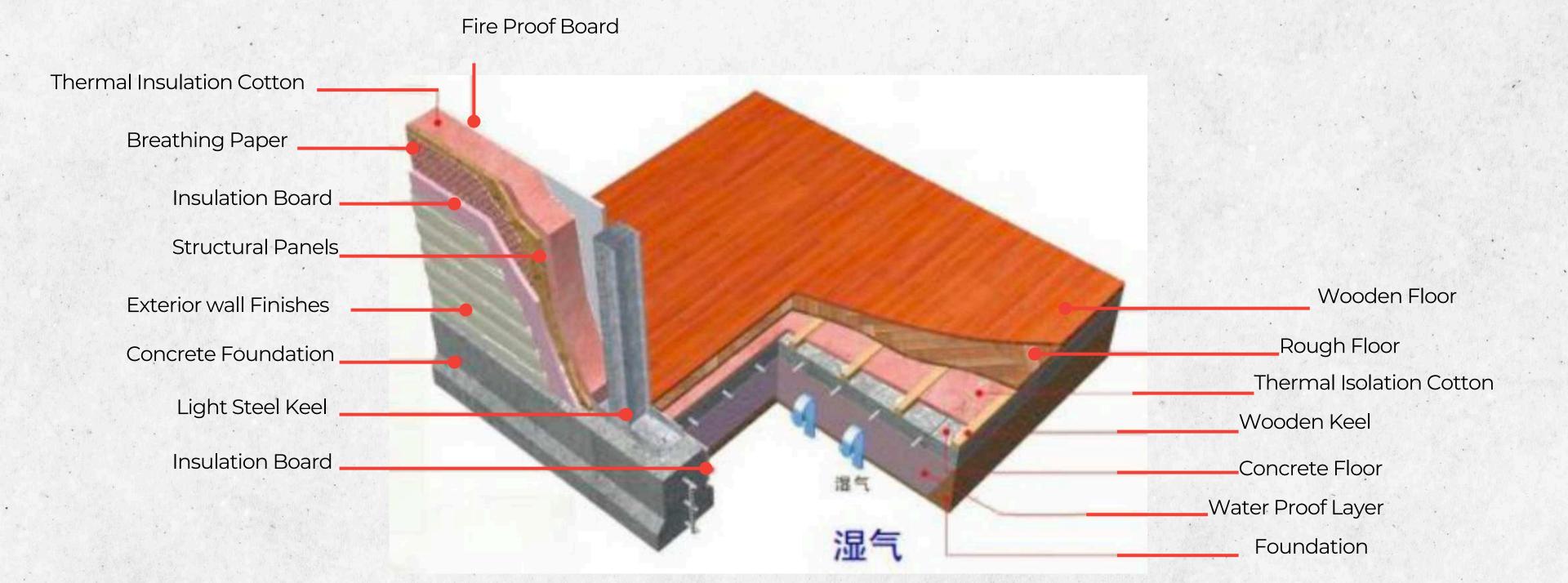
Plate foundation



Foundation Mat



Independent foundation

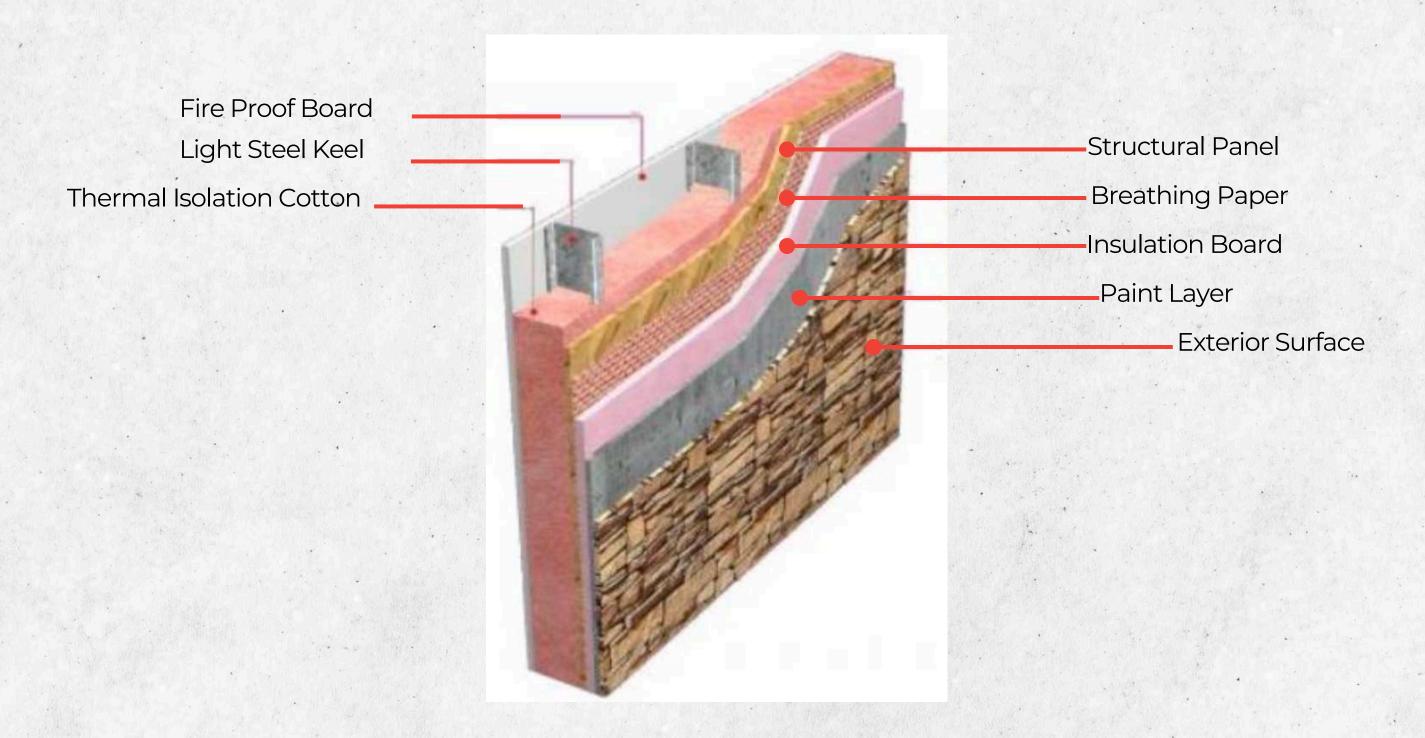


## **Basic Foundation System**

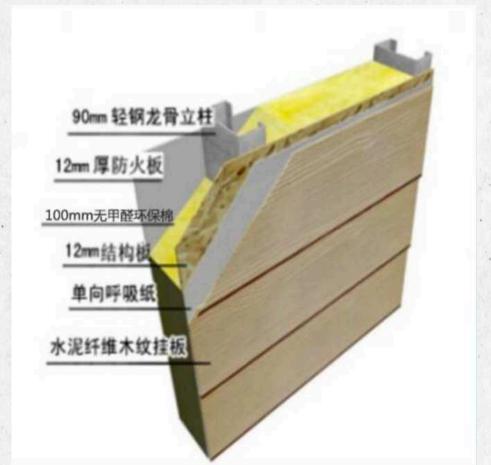
A. The wall is filled with formaldehyde-free, environmentally friendly cotton, and the external wall is covered with insulation board, providing excellent thermal insulation, heat retention, and soundproofing properties.

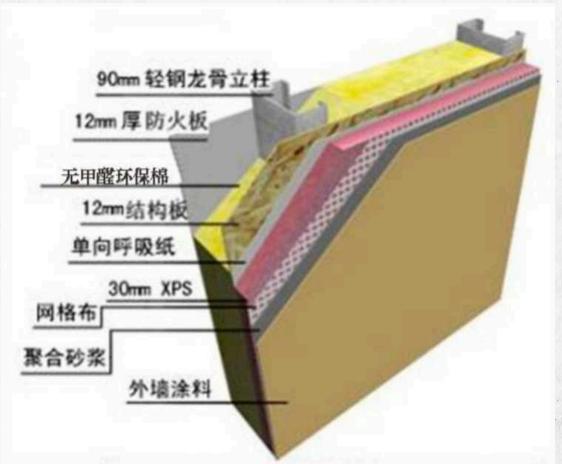
B. The respiratory paper used in the construction is waterproof and breathable, helping to regulate indoor humidity for a more comfortable living environment while also preventing mold growth within the wall.

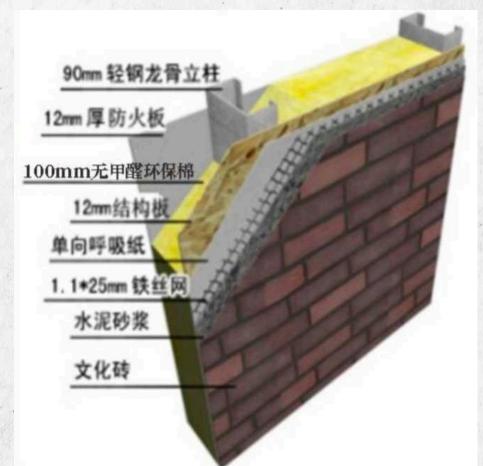
C. The pipelines are embedded within the wall, saving indoor space and maintaining a clean, unobtrusive design.

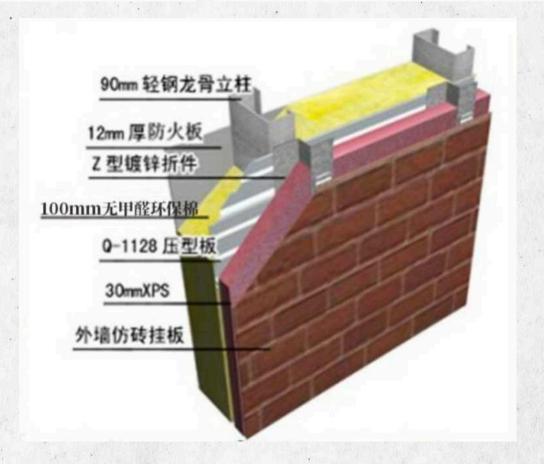


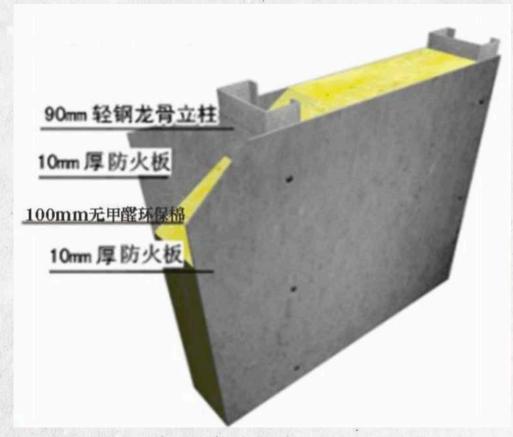
## Wall and wall system









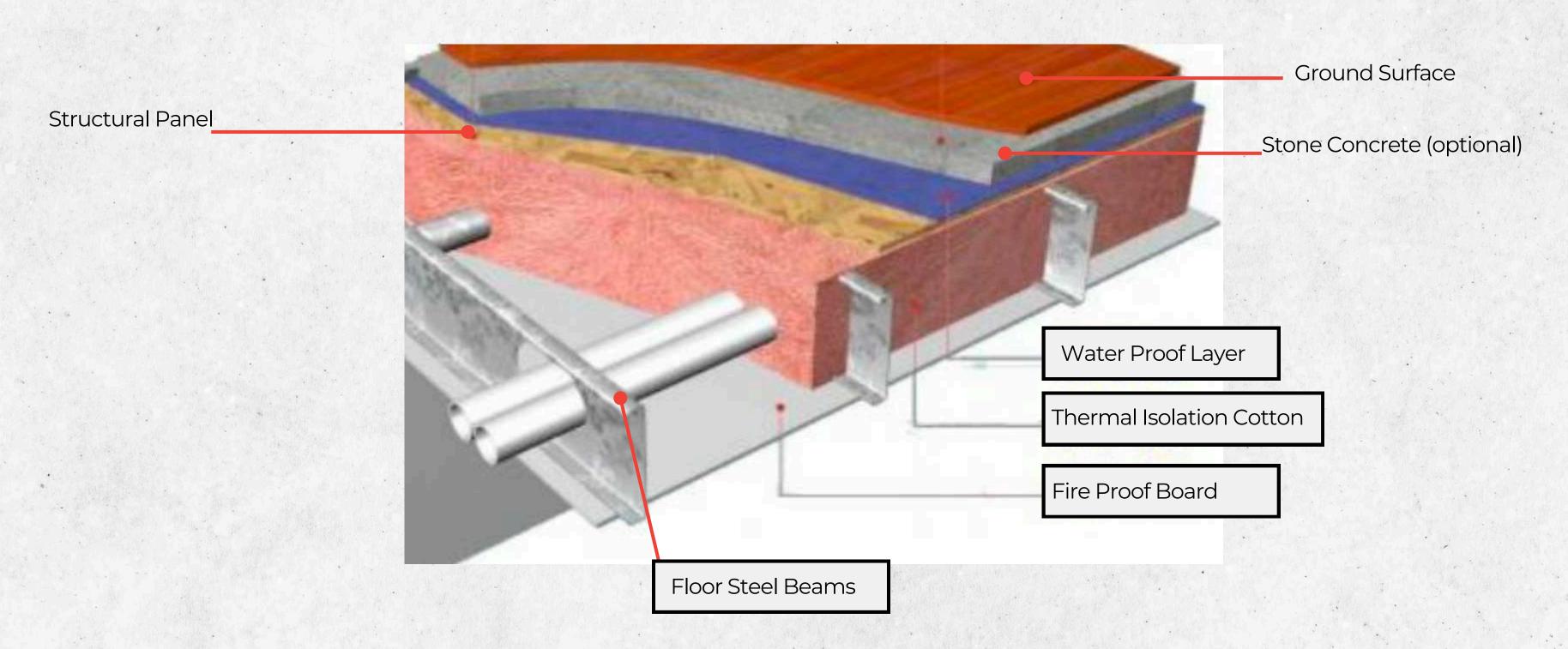


## **Floor System**

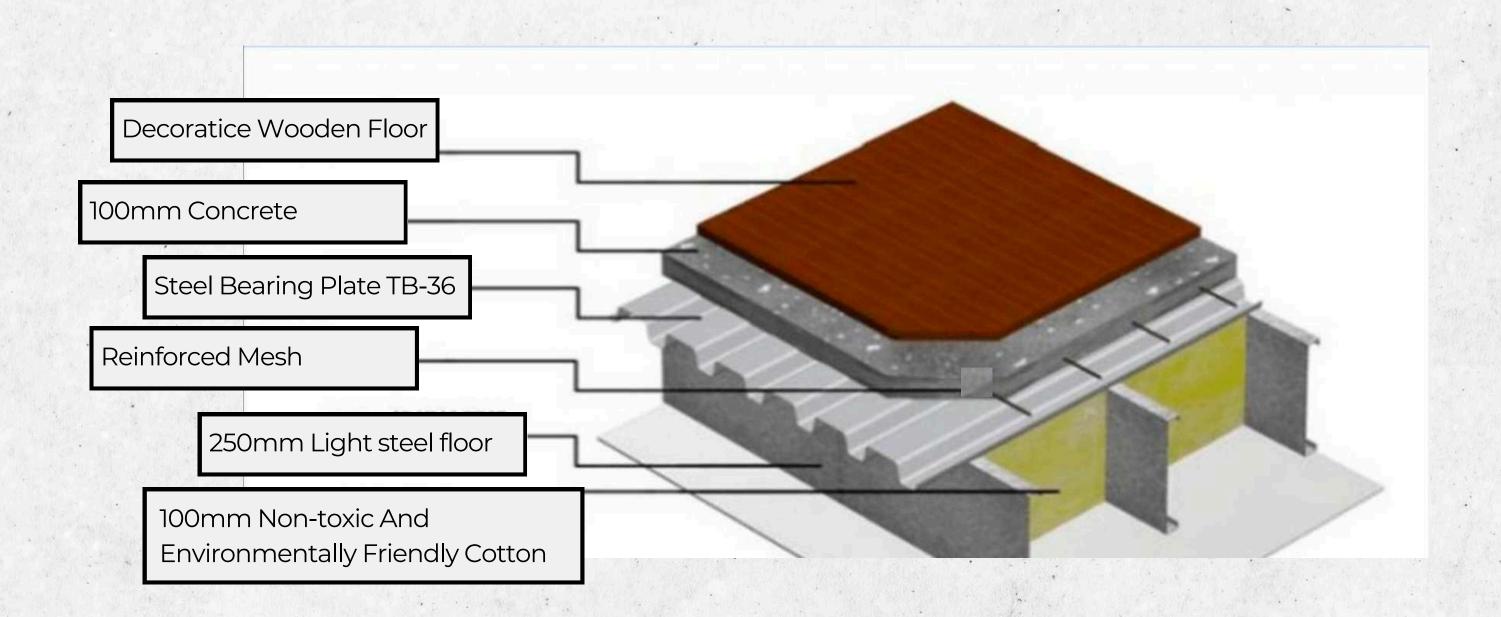
A. The entire structure, made up of structural plates and floor steel beams, provides strong stability and durability.

B. Electrical and plumbing systems are integrated within the floor structure, keeping them hidden and ensuring they do not take up additional space, allowing for better ceiling height and room efficiency.

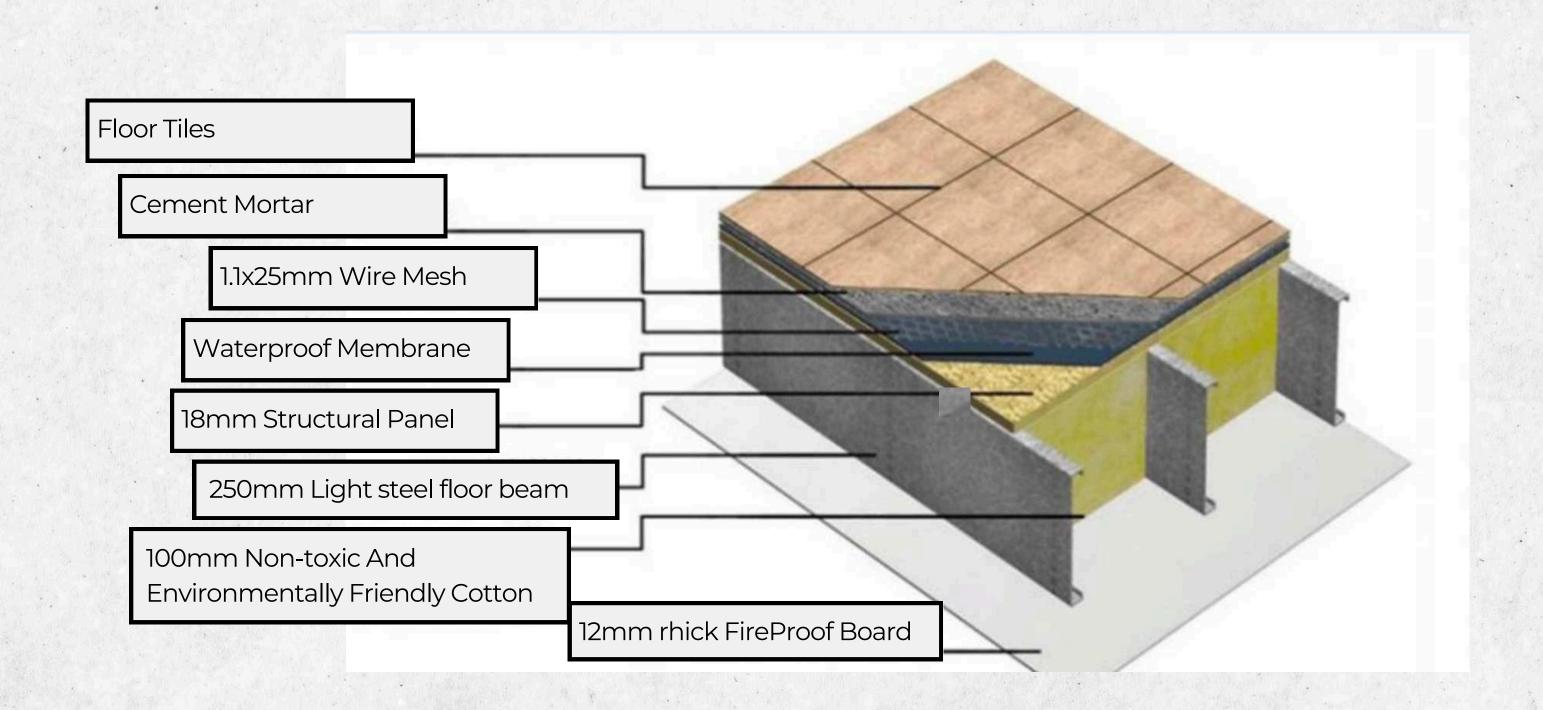
C. The floor contains a layer of formaldehyde-free, eco-friendly insulation material, which significantly enhances thermal insulation, heat retention, and soundproofing, creating a more comfortable indoor environment.



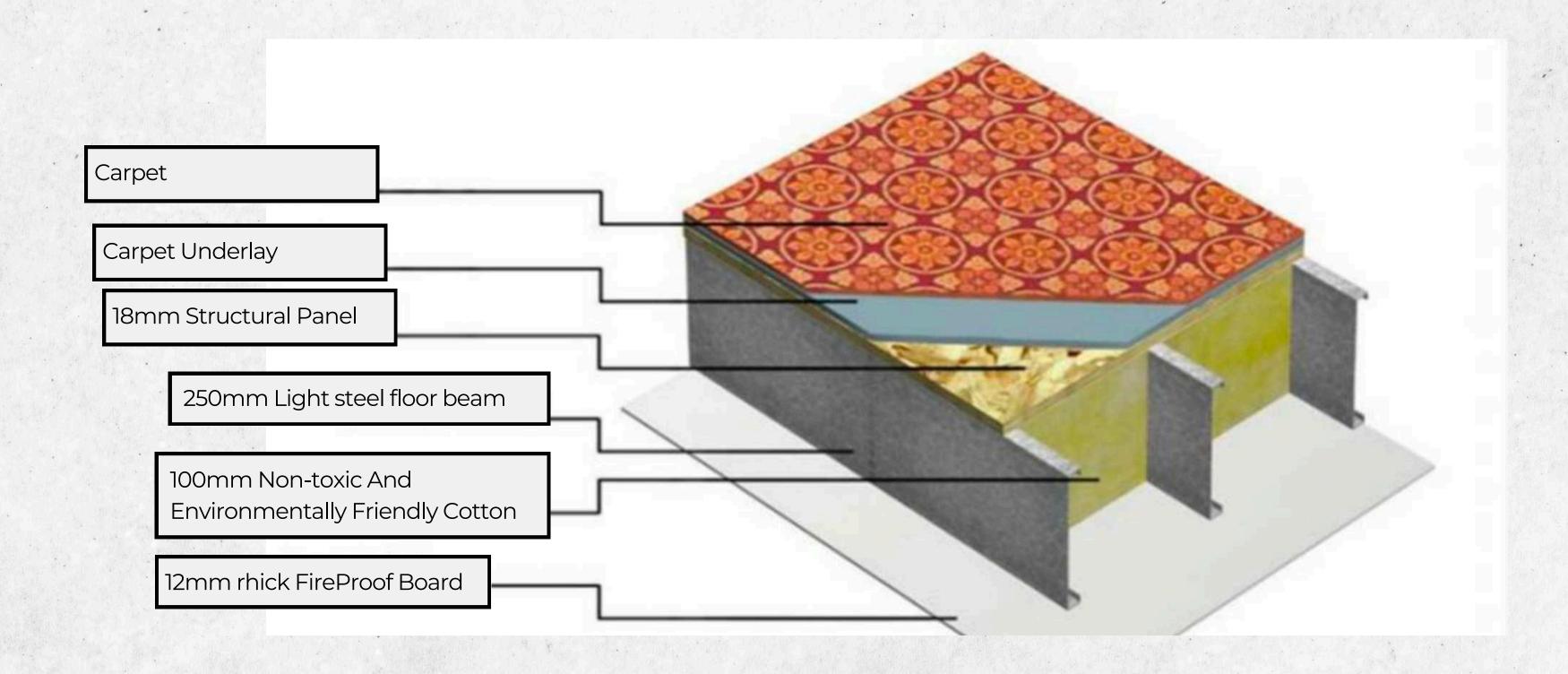
## **Floor System**



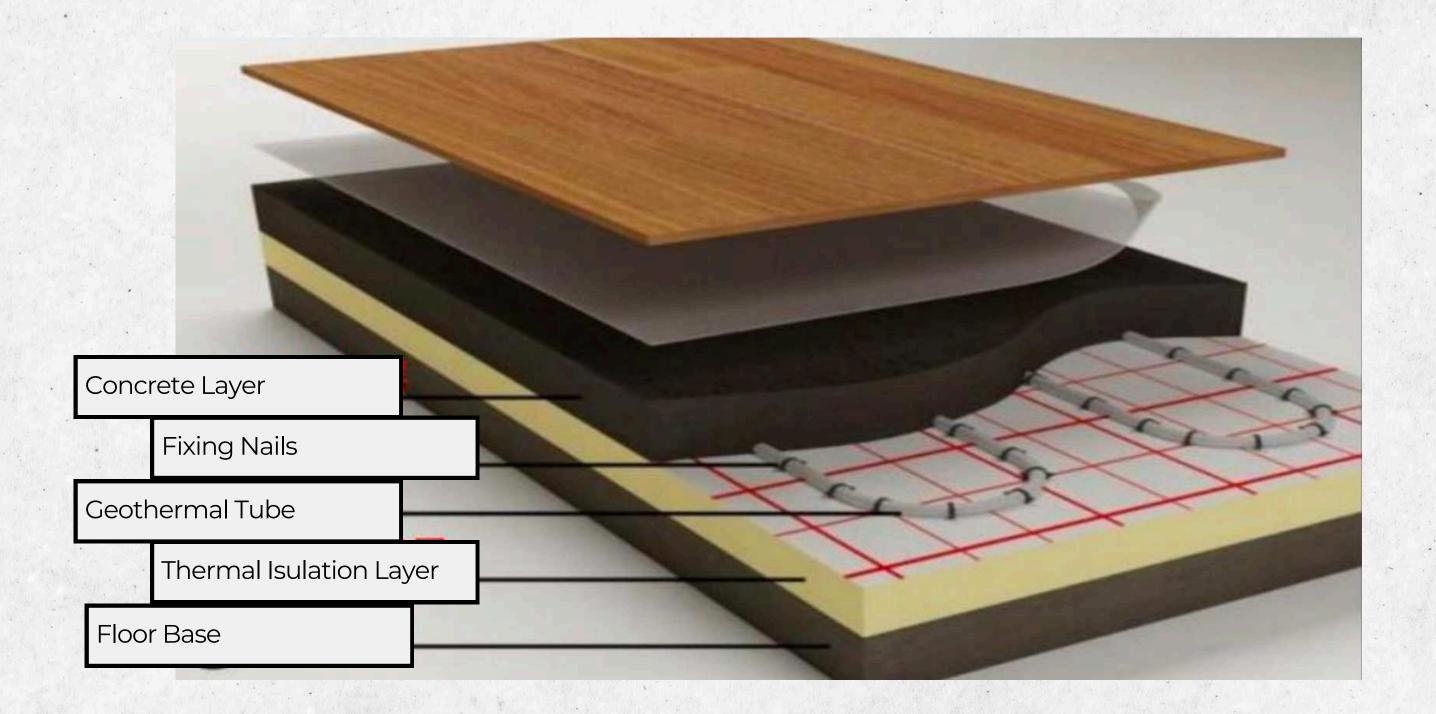
## Floor System - Kitchen & Toilet



## Floor System - Bedroom



## Floor Heating System Analysis

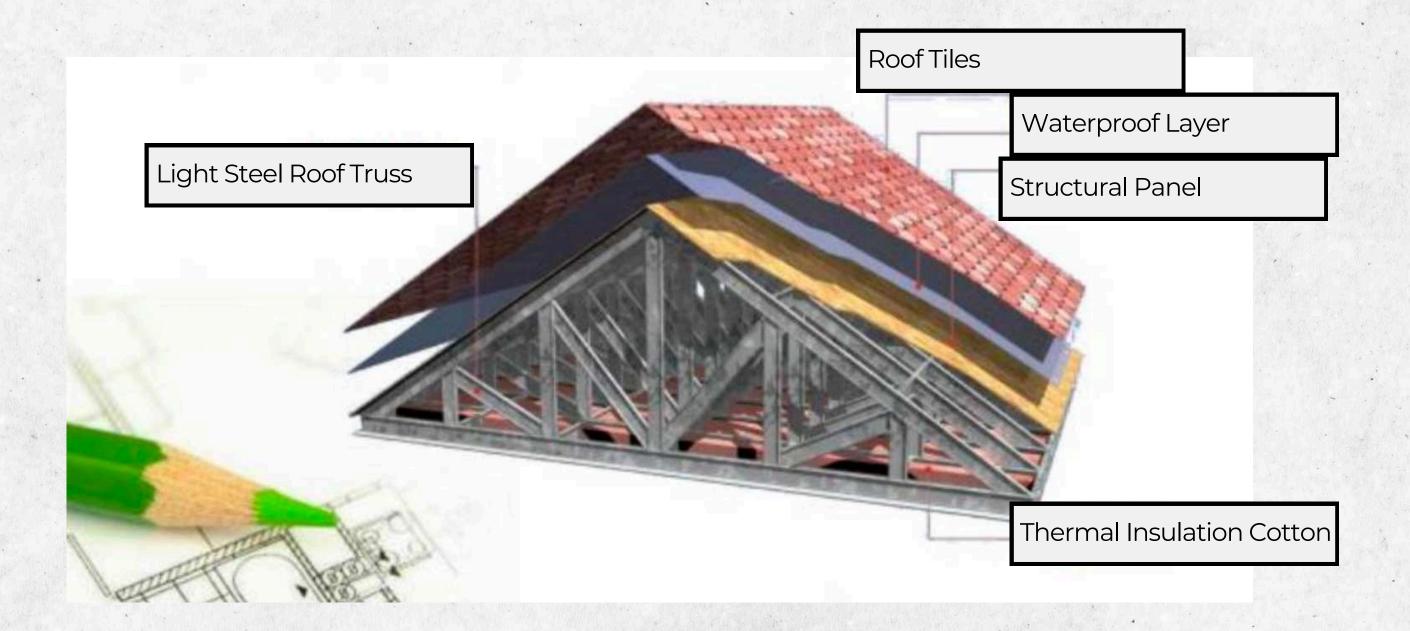


## **Roof System**

A. The composite roof is designed for rain protection, weather resistance, and heat insulation, and its shape can be customized based on customer preferences.

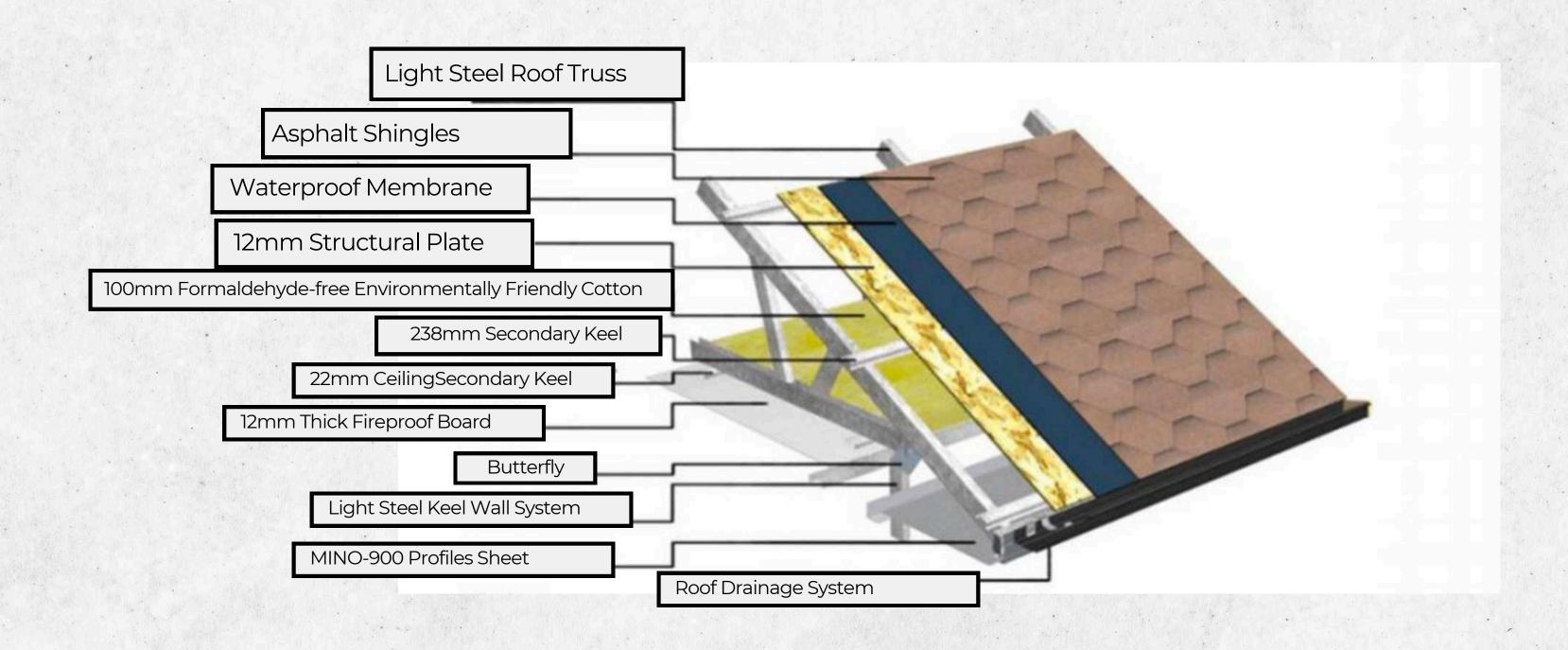
B. The roof features a ventilation circulation system, ensuring fresh indoor air at all times.

This version improves clarity and flow while keeping the meaning intact. Let me know if you need further adjustments!



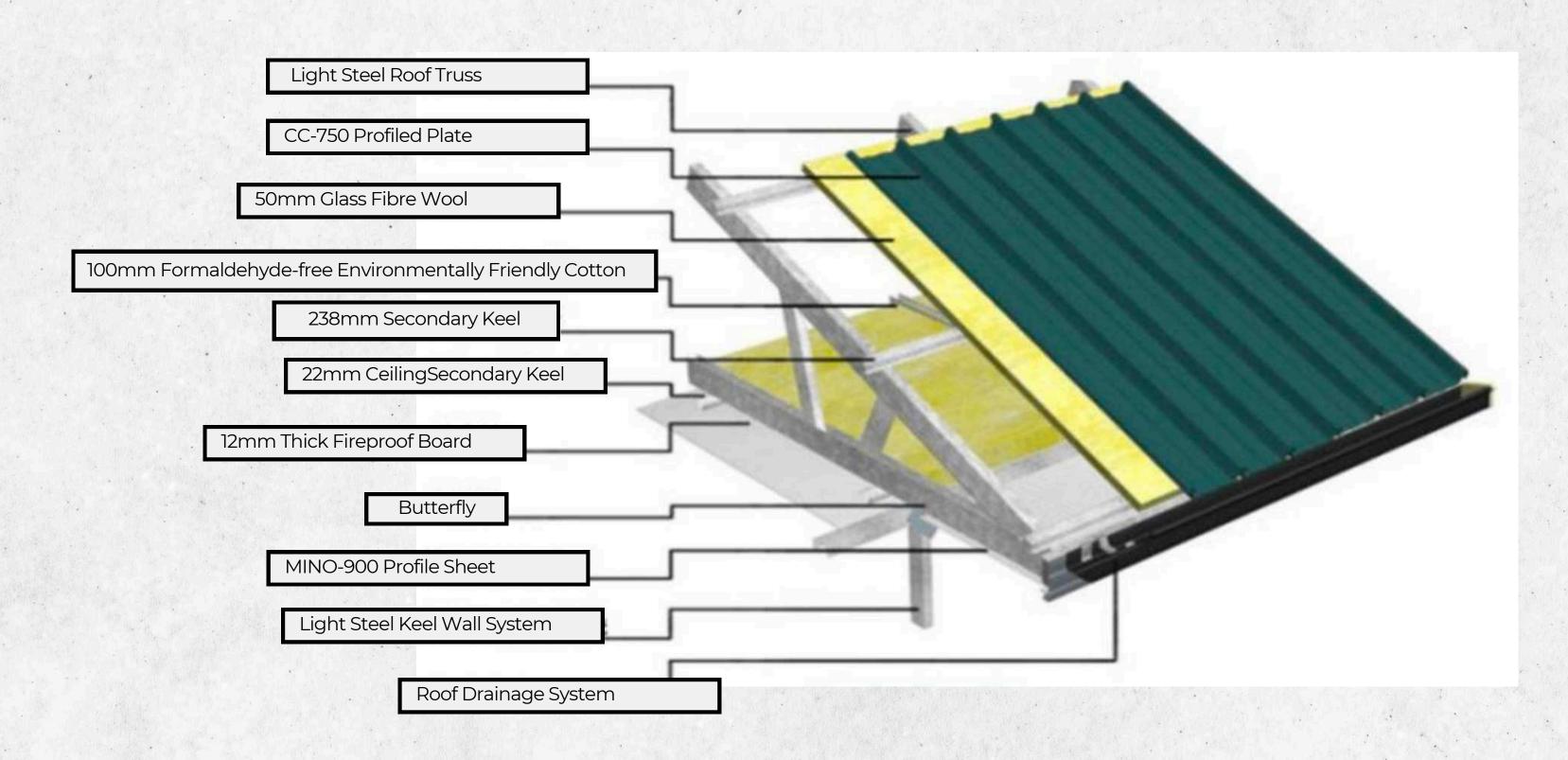
## **Roof System - Asphalt Tile**

Asphalt Tile refers to roofing or flooring materials made from a mixture of asphalt, fillers, and mineral granules. It is most commonly used in roof shingles but can also be found in flooring applications.



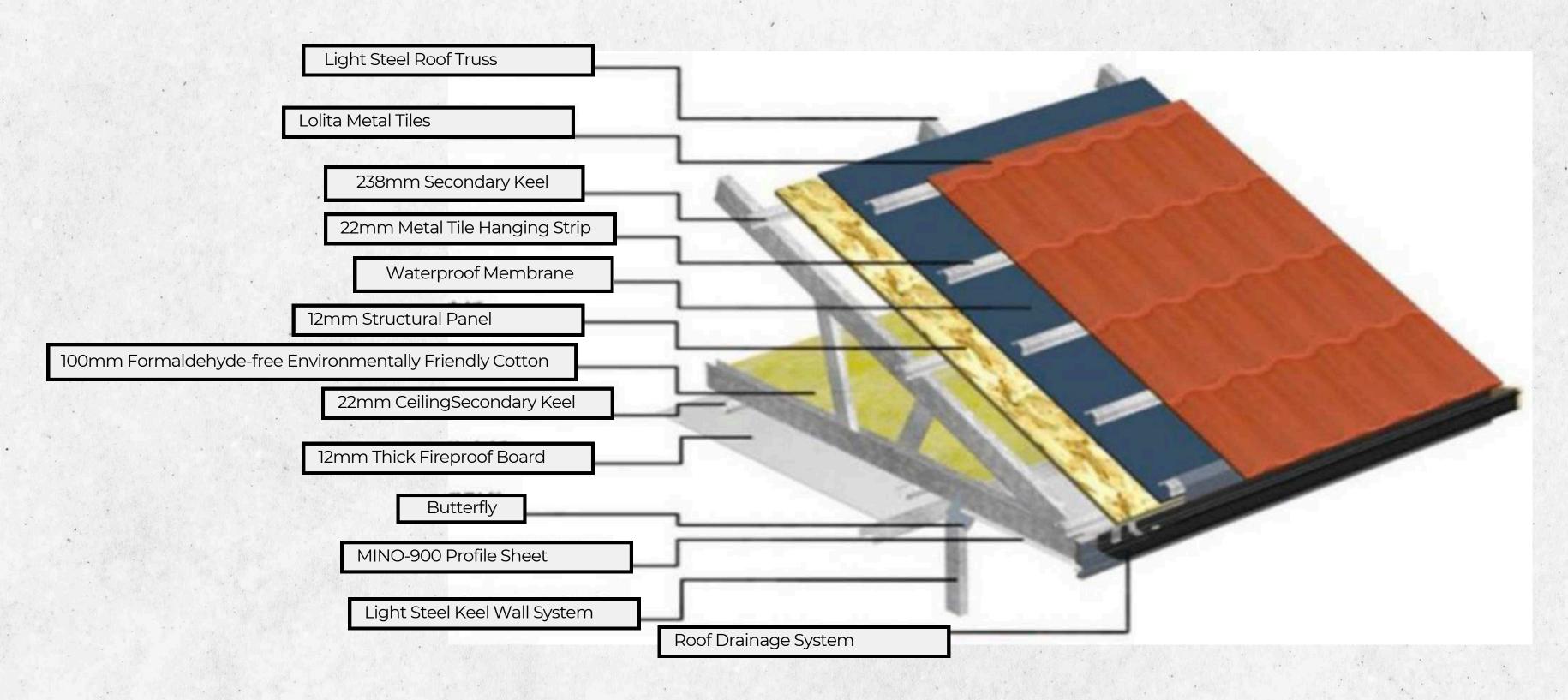
## **Roof System - Pressure Tile**

A Pressure Type Tile Roof System refers to a type of roofing system where tiles are designed to lock together tightly under pressure, providing durability and enhanced weather resistance. This type of roofing system is often used for its ability to withstand harsh conditions, especially heavy winds and rains, due to the interlocking nature of the tiles.



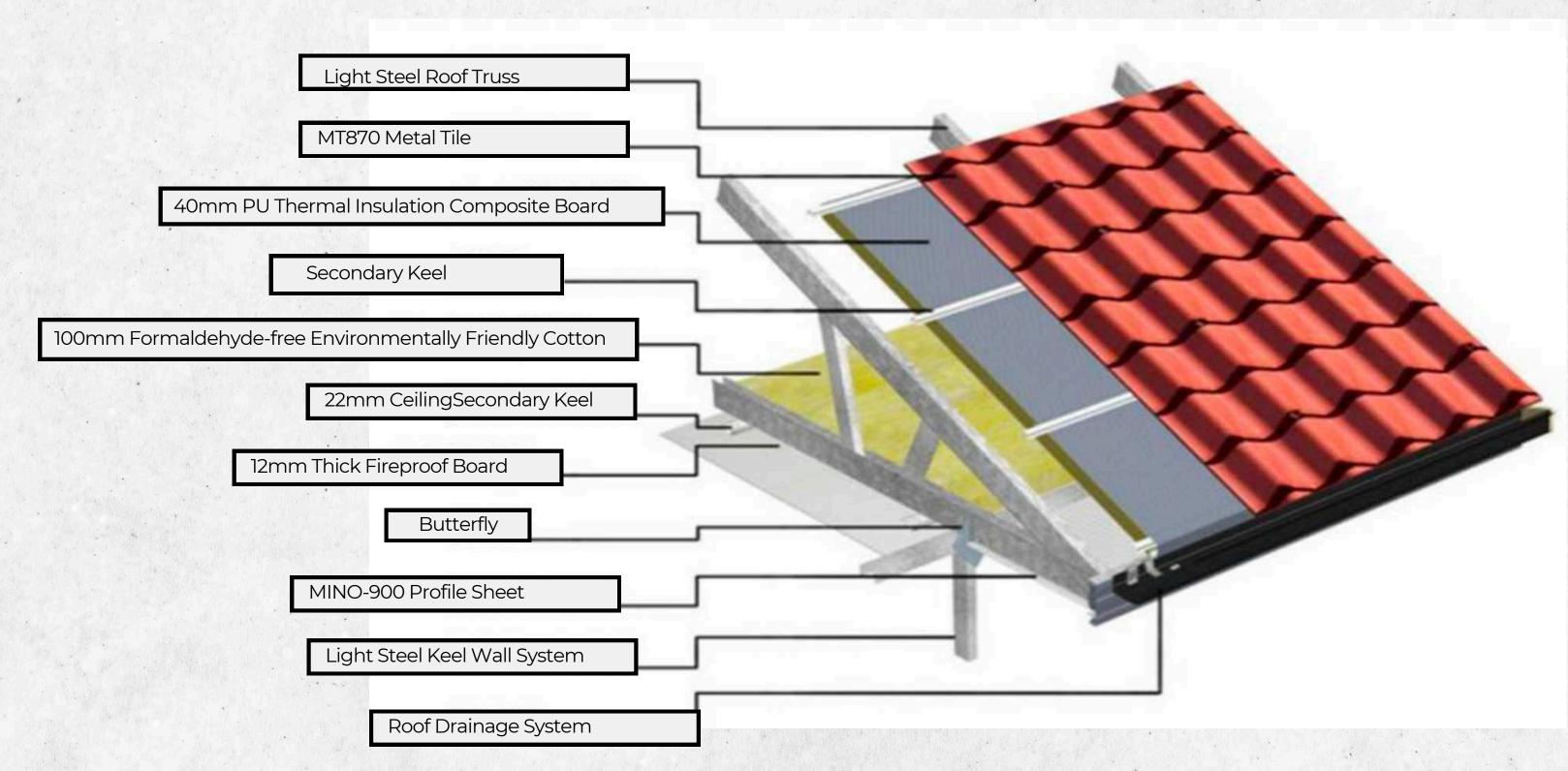
## **Roof System - Metal Tile**

A Metal Type Tile Roof System is a roofing system that uses metal tiles designed to resemble traditional roofing materials like clay or slate tiles. These metal tiles are made from materials such as steel, aluminum, or copper, and are often coated with a layer of protective material like zinc, aluminum, or polyester to ensure durability and resistance to the elements.



## **Roof System - Color Stone Tile**

The Color Stone Type Tile is a roofing material made from metal or steel panels that are coated with a layer of colored stone granules. These tiles are designed to resemble traditional roofing materials like clay or slate, while offering the durability and performance of metal. The color stone granules are embedded in an adhesive coating, providing both aesthetic appeal and enhanced protection for the roof.

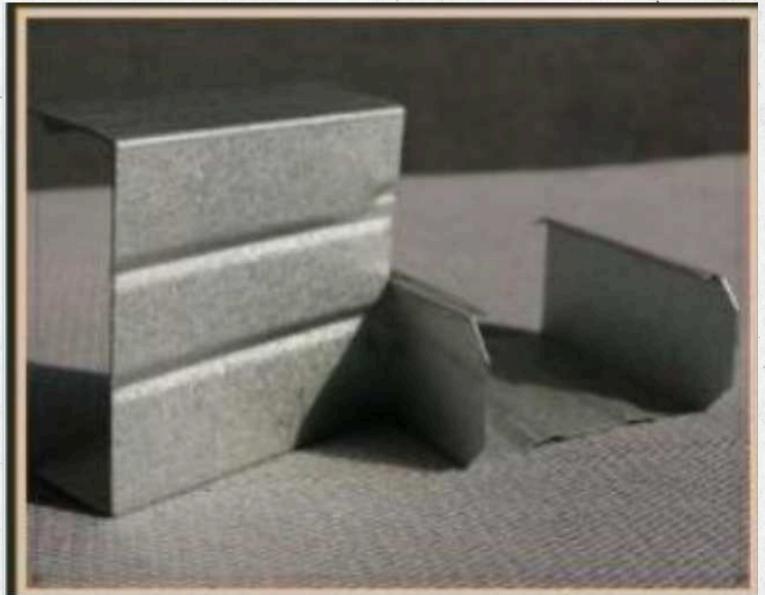




- 1. Light steel structure material
- 2. Structural plate
- 3.heat preservation, sound insulation, fire prevention materials
- 4.waterproof material
- 5. Exterior wall decoration materials
- 6. Roof materials
- 7. Overboard system

A. The composite roof is designed for rain protection, weather resistance, and heat insulation, and its shape can be customized based on customer preferences. B. The roof features a ventilation circulation system, ensuring fresh indoor air at all times. This version improves clarity and flow while keeping the meaning intact. Let me know if you need further adjustments!





Structural Board — OSB Board

Oriented Strand Board (OSB) is a type of structural board made from small wood particles, thinning materials, and wood core, formed through a specific manufacturing process. The shavings are arranged in a specific direction, which gives the board much higher longitudinal bending strength compared to its transverse strength, making it suitable for structural use. OSB can be cut, sanded, planed, nailed, drilled, and processed like wood.

The space of the future will utilize strong, nail-grip-resistant, waterproof, fireproof, and formaldehyde-free OSB boards.



Structural Sheet Plate — Gypsum Board

Gypsum board is primarily made from construction gypsum, combined with lightweight aggregates, fiber-reinforced materials, and additives to form the core. The core is then bonded with protective paper to create the building sheet.

Its advantages include:

A. Better comfort: Its "breathing" function helps regulate indoor humidity. B. Aesthetic appeal: The smooth surface and seamless bonding between panels result in a visually pleasing architectural finish. C. Superior heat insulation: With a thermal conductivity of 0.3, it outperforms brick (0.43) and cement (1.63). D. Enhanced fire resistance: The gypsum board's heat-release combined water offers a fire resistance limit of over 2 hours.



Structural Plate — Cement Fibrous Board

Cement fibrous board is made from silicon and calcium materials as the main raw ingredients, with added plant fibers. The mixture is then grouted, pressed, and cured to form a durable building board.

Its advantages include:

A. Non-combustible material: It is classified as a grade 1 fire-resistant material, which does not release toxic gases at high temperatures. B. Water resistance: The water absorption rate is less than 40%, and the board remains stable and does not deform when wet. C. High bending strength: With a bending strength of over 20 MPa, the material is resistant to damage and rupture. D. Durability: The calcium silicate board has stable performance, is resistant to acid and alkali, and is not easily corroded. It is immune to damage from moisture or insects, ensuring a long service life. E. Freeze-thaw resistance: The board withstands 25 freeze-thaw cycles without cracking or delaminating.





Thermal Insulation, Sound Insulation, and Fire Prevention Material — Formaldehyde-Free Environmental Protection Cotton Made from natural rocks and minerals, this material is processed by high-temperature melting and fiberization, with the addition of a suitable binder.

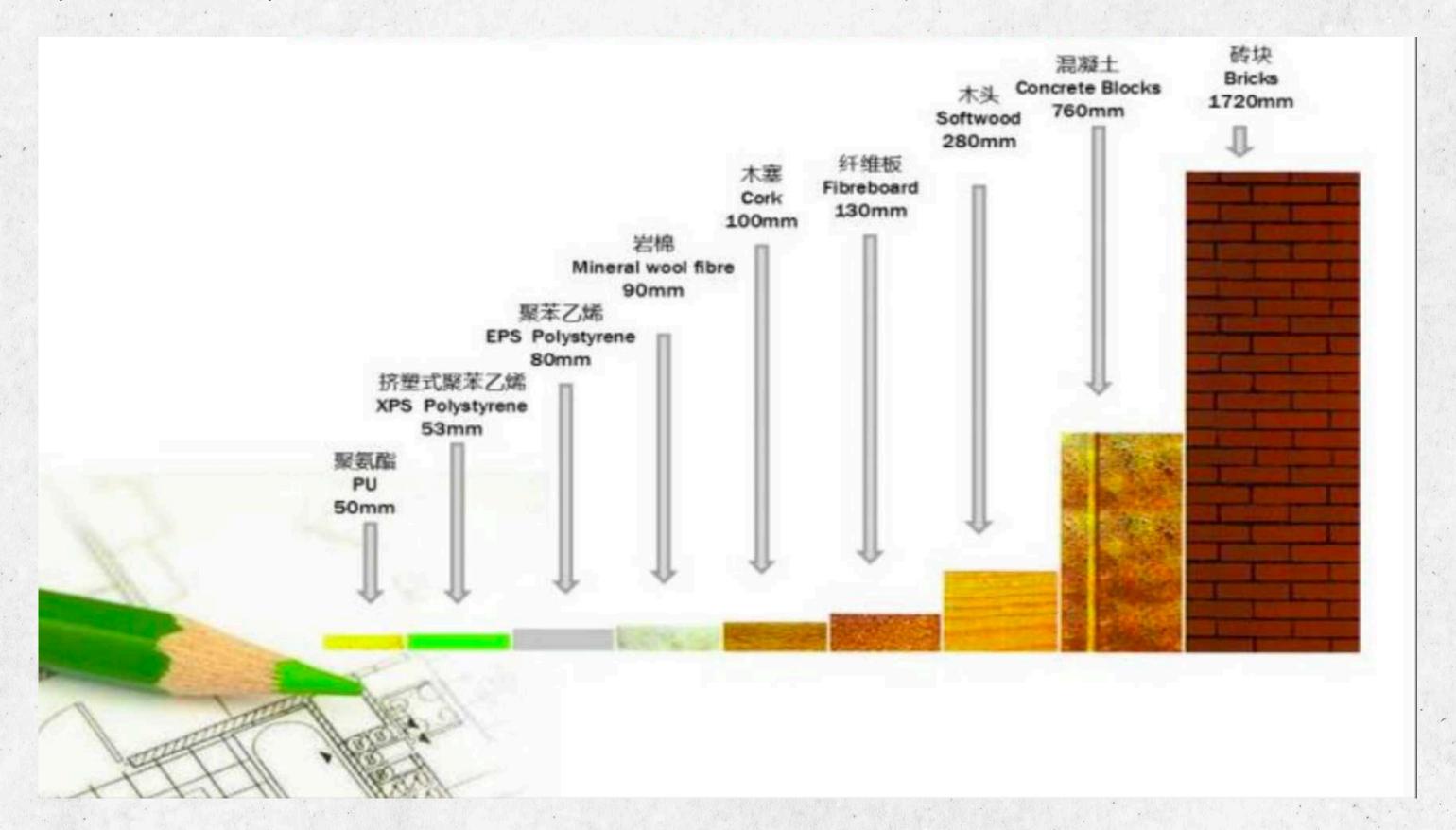
Its advantages include:

A. Grade A1 non-combustible material: It is classified as a non-combustible material, ensuring high fire resistance. B. Density: The material has a density range of 800–1100 kg/m³. C. Thermal conductivity: The thermal conductivity is 0.044 W/cm·K, offering effective insulation. D. Heat resistance: It can withstand temperatures up to 650°C without degrading. E. Excellent sound insulation: The material provides excellent sound insulation, improving acoustic performance.





Comparison of required thickness of various materials under the same thermal insulation effect



Waterproof Material — Waterproof and Breathable Film

The waterproof breathable membrane is made from a polyethylene microporous film as the middle layer, with non-woven fabric on both sides, created through a hot melt pressure process. The middle layer acts as the main waterproof barrier.

How it works: Water vapor, in its gas form, has very small molecular particles, allowing it to pass through the microporous film due to diffusion. However, liquid water or water droplets cannot pass through because of the surface tension of the film, effectively preventing water penetration and providing waterproof protection.



Waterproof Material — Self-Adhesive Waterproof Membrane

This material is made from polymer resin and high-quality asphalt as the base, with polyethylene film or aluminum foil as the surface layer. It uses self-adhesive technology, providing strong bonding performance and self-healing properties. The product is suitable for cold construction and can withstand both high and low temperature environments.



Waterproof Material — Waterproof Coating

Waterproof coating is a solvent-based, modified asphalt waterproof paint. It is made by mixing asphalt as the base material with fillers and dissolving them into a cold construction, full-mix water paint. This material is easy to apply, convenient for construction, and suitable for various types of buildings. It ensures even coverage without dead spots, offers color variety, and results in a smooth coating surface.



Exterior Wall Decoration Material — Metal Carved Flower Board

The metal carved flower board for exterior walls is a popular new type of hanging board that integrates both thermal insulation and decoration functions. The surface features a high-quality color relief decorative metal plate treated with a special coating. The middle layer consists of a hard, high-density polyurethane insulation section treated with flame retardant for enhanced safety. The bottom surface is coated with an aluminum foil protective layer, providing both heat insulation and moisture protection.



PVC Exterior Wall Hanging Board

The PVC exterior wall hanging board is made from polyvinyl chloride resin combined with stabilizers and other auxiliary ingredients. This material offers excellent resistance to oxidation and corrosion, making it durable and long-lasting. It is cost-effective, energy-saving, and environmentally friendly. Additionally, its construction is convenient, and it is not significantly affected by seasonal changes, making it a reliable choice for exterior wall applications.

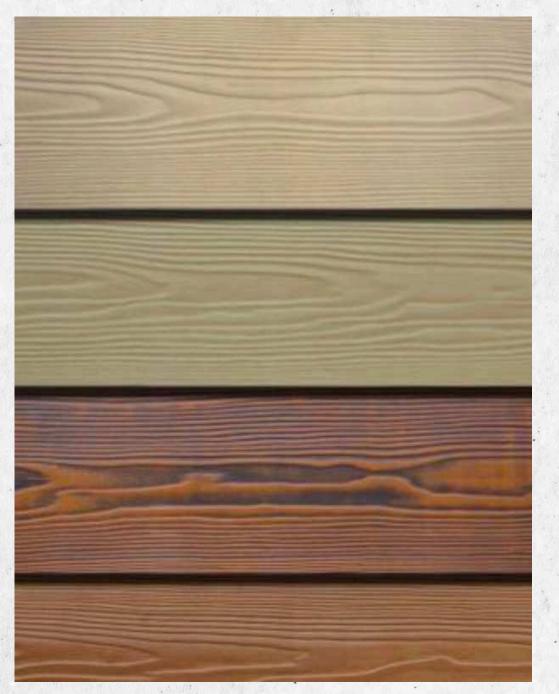




Wood-Grain Cement Fiber Exterior Wall Hanging Board

The wood-grain cement fiber exterior wall hanging board is made by combining cement as the adhesive component with an appropriate amount of plant fibers. The surface is designed with a wood-grain appearance, providing a natural and aesthetically pleasing look. This material is durable, lightweight, and offers excellent heat insulation, frost resistance, sound absorption, fire prevention, mildew resistance, and insect resistance, making it an ideal choice for enhancing both the functionality and appearance of exterior walls.





Exterior Wall Decorative Material — Cement Fiber Decorative Board

The cement fiber decorative board is made from cement as the base material, reinforced with composite fibers. It is mixed with a specific formula and then subjected to high temperature and pressure curing. This product is lightweight, fire-resistant, waterproof, mildew-resistant, and heat-resistant. It also provides benefits such as sound insulation, impact resistance, acid and alkali resistance, aging resistance, frost resistance, and environmental friendliness. Combining both functionality and aesthetics, it is an ideal choice for high-quality exterior wall decoration.



Exterior Wall Decoration Material — Artificial Culture Stone

Artificial culture stone is produced using methods that enhance its texture, color, and natural appearance, giving it a primitive and simple charm. High-quality artificial cultural stone is environmentally friendly, energy-saving, and lightweight. It is available in a variety of rich colors and is resistant to mildew, non-flammable, and highly durable with excellent thawing and freezing resistance. Additionally, it is easy to install, making it an ideal material for exterior wall decoration.













Roof Material — Colored Stone Metal Tile

The colored stone metal tile is made from aluminized zinc sheet as the substrate, treated with protective films on both the front and rear. The surface is coated with high-quality, non-toxic adhesive, followed by the application of natural colored stone grains. This material is lightweight, yet high in strength, offering durability and firmness. It is also easy to install, making it a reliable and efficient roofing option.





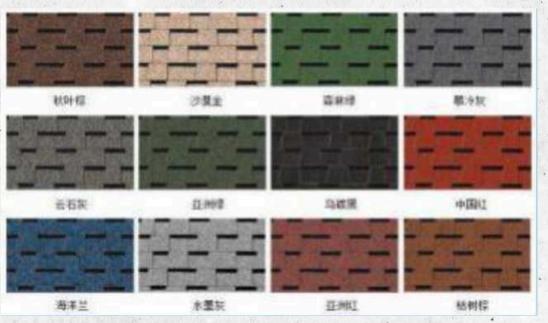




Roof Material — Asphalt Tile

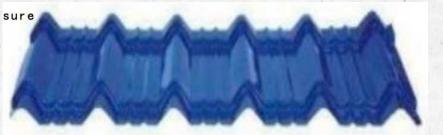
Asphalt tiles are made with a fiberglass felt base, which is soaked in high-quality asphalt. One side of the tile is coated with colored mineral particles, while the other side is sprinkled with a separator. This type of roofing material serves both decorative and waterproof functions. It offers excellent waterproofing, a wide range of colors, diverse forms, and is simple to construct, making it a popular choice for roofing.

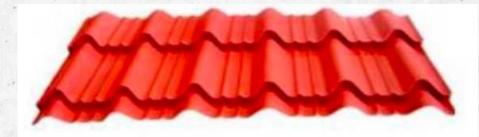




Roof Material — Color Steel Pressure Type Tile

Color steel pressure type tiles are made from color-coated steel plates that are cold-bent into various waveforms using a roller press. These tiles are lightweight, yet strong, offering excellent rain protection and a long lifespan. They are available in a wide range of colors and are easy to install, requiring little to no maintenance. Due to these advantages, color steel pressure type tiles have become widely used in roofing applications.

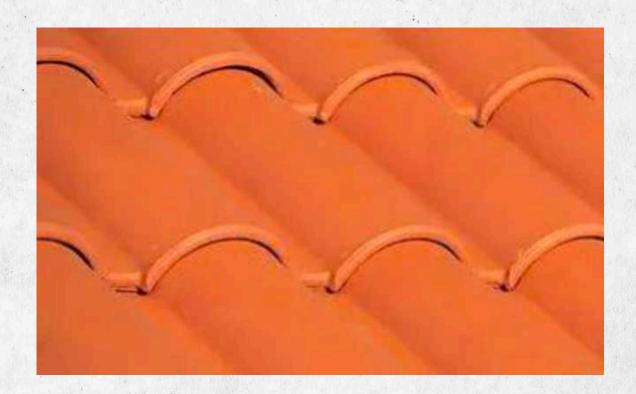


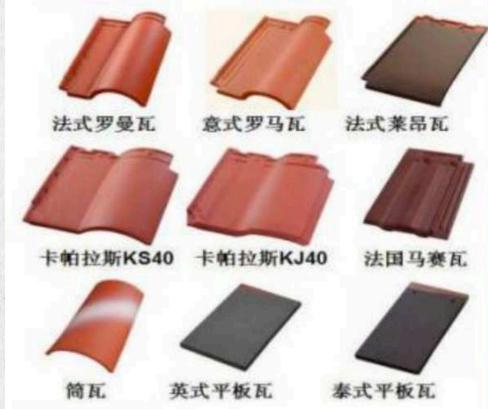




#### Roof Material — Clay Tile

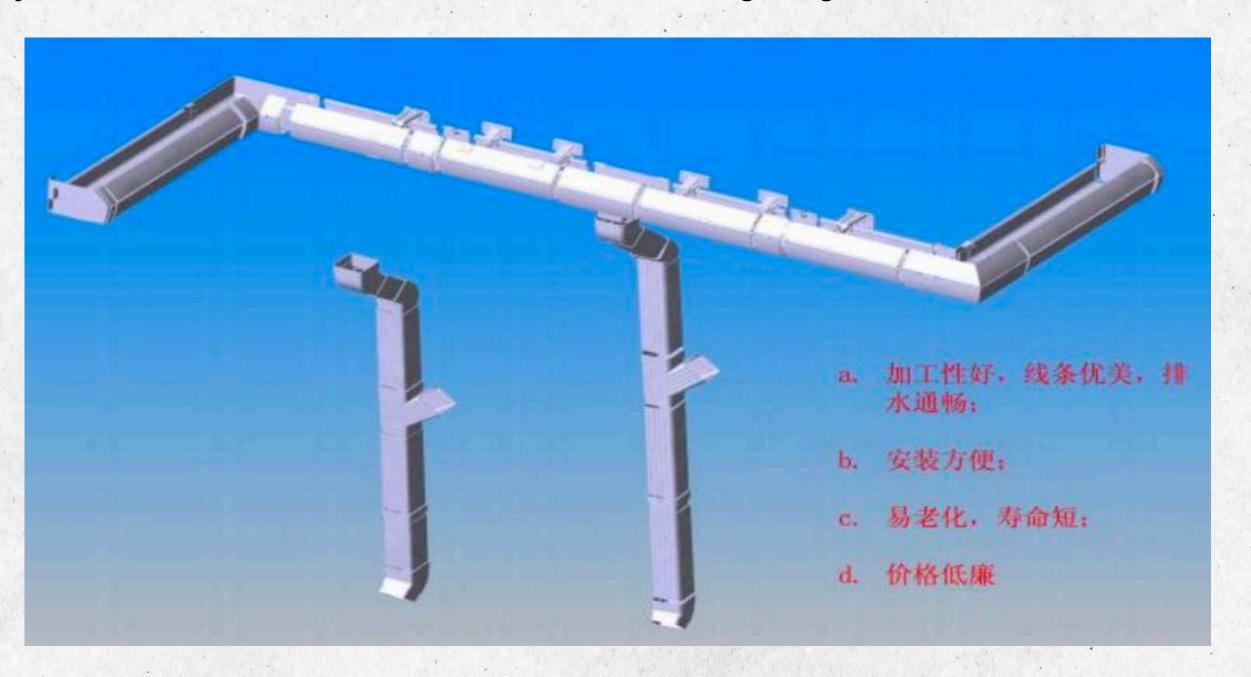
Clay tiles are made from natural clay and other compounds, then fired at high temperatures to enhance their durability. These tiles feature rich and vibrant colors that do not fade easily over time. They are fire-resistant and have a long lifespan. The dense enamel surface prevents the growth of bacteria and the accumulation of dirt, ensuring a cleaner roof. Additionally, clay tiles are odorless, do not release harmful substances, and are easy to clean, requiring minimal maintenance.





Introduction of Auxiliary System - Drop System (PVC Draining System)

The PVC draining system, commonly referred to as the PVC downspout system, is used to direct rainwater from the roof to the ground or drainage systems. This system includes a network of pipes and fittings made from polyvinyl chloride (PVC), which is known for its durability, corrosion resistance, and ease of installation. PVC downspouts efficiently manage water runoff, preventing water damage to the building's foundation. The system is lightweight, low-maintenance, and cost-effective, making it a popular choice for residential and commercial buildings. Additionally, the PVC material is resistant to weather conditions, ensuring a long service life.



Falling System - Color Steel Drowning System

The color steel drowning system is designed to manage water drainage effectively while offering durability and aesthetic value. This system features high-strength galvanized color-coated boards, which provide robust protection against harsh environmental conditions. Key features include:

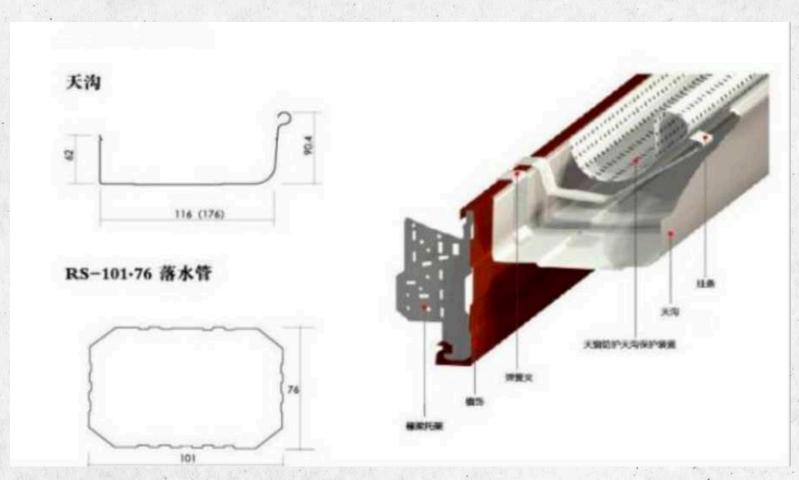
A. Long Service Life: The high-strength galvanized color-coated board has a service life of over 35 years, making it a long-lasting solution for rainwater drainage.

B. High Intensity: The system is particularly suitable for areas prone to heavy snow and ice, offering enhanced strength to withstand these extreme conditions.

C. Aesthetic Variety: Available in a range of colors, the system can easily be integrated into different building designs, adding to the overall visual appeal while maintaining functionality.

D. Environmental Protection: The materials used are environmentally friendly, contributing to sustainable construction practices.

This system is designed for easy installation and offers superior performance, ensuring efficient water drainage while adding to the building's aesthetic and functional value.





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