

Leopad Home
www.leopadhome.com

STEEL STRUCTURE HOMES

REDEFINING MODERN CONSTRUCTION

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WHO WE ARE?

Leopad Home's production and e-commerce divisions are located in the Fengrun Industrial Park of Tangshan, adjacent to National Highway G112, with convenient transportation and logistics resources. Covering an area of 80 mu, with a total investment of 80 million yuan and a building area of 32,000 square meters, the company has served the construction industry for 25 years. It is a professional and integrated manufacturer and service provider of building components that integrates research and development, production, sales and technical support.

Focusing on technical innovation, the company has built a 15-member professional R&D team. Equipped with four intelligent CNC production lines and a third-party certified quality inspection laboratory, the enterprise adopts advanced processes including CNC cutting, automatic welding and hot-dip galvanizing, and implements standardized full-process quality control to ensure product quality exceeds industry standards. The company's product lineup covers building steel formwork, special-shaped bridge steel formwork, steel structure houses, container houses and scaffolding. With an annual output of 120,000 square meters of standard steel formwork and 8,000 tons of special-shaped bridge formwork, it provides customized, ready-to-install products and on-site technical guidance to support smooth project mplementation.

Boasting a complete supply system and one-stop full-cycle service, the company adheres to a customer-oriented philosophy to meet diverse project demands. It has accumulated rich infrastructure experience and earned a reputable market image through reliable quality and professional services. In the future, guided by the principles of innovation, efficiency and integrity, Taogang will continuously optimize production techniques and service systems. Rooted in the Beijing-Tianjin-Hebei region and serving nationwide and global clients, the company delivers high-quality building components and integrated solutions to jointly promote innovative development of the construction industry.



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Steel structure House

Steel structure buildings adopt light and heavy steel as their main structural components. Manufactured in factories and assembled on-site, they feature stable structure, rapid construction, flexible layout and environmental friendliness. They are widely used in residences, villas, commercial buildings and resort projects.







Steel structure house Product Lines



Steel Integrated House

Ideal for residential housing, schools, hotels, resorts, and dormitories. Featuring structural stability, fast construction, and eco-friendly design, we provide efficient, flexible, and integrated building solutions for diverse needs.

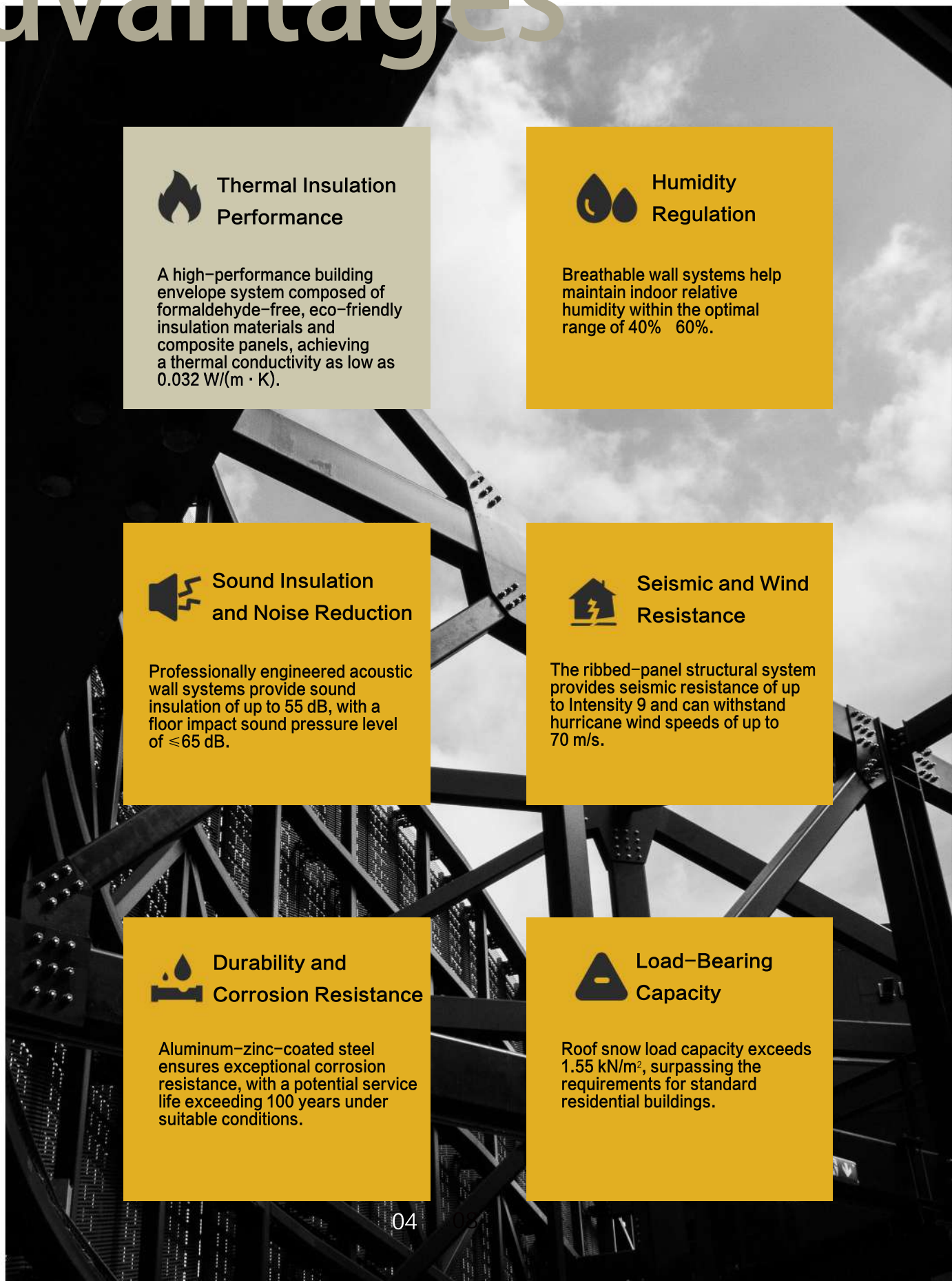


Steel Structure Workshop

Suitable for factories, warehouses, workshops, and agricultural sheds. With robust structures, spacious layouts, and shorter construction times, our solutions help reduce building costs and support efficient, sustainable development.

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Steel structure house Advantages



Thermal Insulation Performance

A high-performance building envelope system composed of formaldehyde-free, eco-friendly insulation materials and composite panels, achieving a thermal conductivity as low as 0.032 W/(m · K).

Humidity Regulation

Breathable wall systems help maintain indoor relative humidity within the optimal range of 40% 60%.

Sound Insulation and Noise Reduction

Professionally engineered acoustic wall systems provide sound insulation of up to 55 dB, with a floor impact sound pressure level of ⩽65 dB.

Seismic and Wind Resistance

The ribbed-panel structural system provides seismic resistance of up to Intensity 9 and can withstand hurricane wind speeds of up to 70 m/s.

Durability and Corrosion Resistance

Aluminum-zinc-coated steel ensures exceptional corrosion resistance, with a potential service life exceeding 100 years under suitable conditions.

Load-Bearing Capacity

Roof snow load capacity exceeds 1.55 kN/m², surpassing the requirements for standard residential buildings.

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Four Core Systems

for Steel Structure House

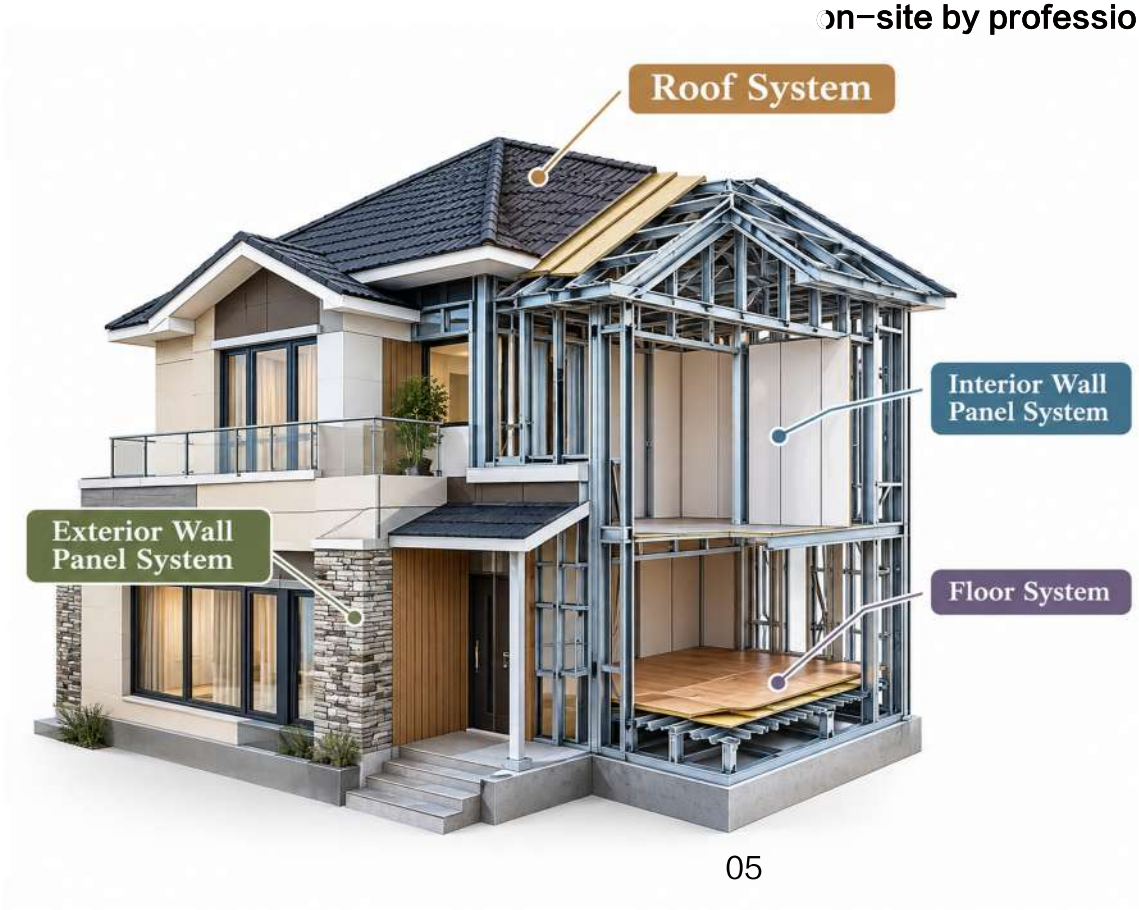
01 Exterior Wall Panel System

02 Interior Wall Panel System

03 Floor System

04 Roof System

Light gauge steel buildings use high-strength hot-dip galvanized aluminum steel strips, which are cold-formed into light steel keels as the primary structural material. With precise calculations and the support and integration of auxiliary components, the structure consists of foundation, wall, floor and roof systems — each system is composed of multiple modular units. All components are digitally prefabricated with high precision in factories, with dimensional tolerance controlled within ±0.05 mm, and efficiently assembled on-site by professional teams.





One Wall, Six Layers Steel of Protection



The foundation system for our light steel houses adopts an innovative design concept that fully leverages the lightweight advantages of light steel structures. Compared with traditional buildings, our light steel structures weigh only approximately 20% of brick-and-mortar structures and 12.5% of reinforced concrete structures. This significant advantage delivers three major improvements in foundation construction: simplified foundation design with more economical strip foundations, approximately 40% less excavation, and over 35% reduction in foundation material consumption.

The wall system of light-gauge steel houses features an innovative composite structural design, with standard exterior wall thicknesses ranging from 120 to 200 millimeters. Through optimized structural engineering, the actual usable floor area of these homes is 10% to 18% larger than that of traditional houses, with space utilization efficiency exceeding 90%. Based on a modular design philosophy, interior spaces can be freely partitioned to meet personalized living needs. Standardized conduit channels are built into the wall system, allowing all electrical and plumbing lines to be concealed. This ensures an aesthetically pleasing appearance while facilitating future maintenance and upgrades. Our wall system integrates multiple functions, including thermal insulation, soundproofing, and fire resistance. While ensuring structural safety, it also provides users with greater practical value and a more comfortable living space.

Exterior Wall Panel System

The exterior wall system features a multi-layer composite envelope that can be customized with finishes such as stone-textured paint, embossed metal siding, ceramic panels, lightweight PU cultured stone, and cement fiber boards. The system combines thermal insulation, water-proofing, moisture resistance, weather durability, and aesthetic appeal, while offering efficient installation and easy maintenance for long-lasting exterior protection.



Natural stone-effect paint



embossed metal panels



ceramic panels



lightweight PU faux stone



cement fiber boards

Interior Wall Panel System

The interior wall system combines lightweight steel framing with a variety of functional wall finishes, including latex paint, bamboo-wood fiber panels, carbon crystal panels, and fire-resistant gypsum boards. With a carefully designed wall structure, the system provides balanced fire resistance, sound insulation, thermal insulation, and environmental performance, while offering flexible options for colors, textures, and interior styles.



Latex paint



bamboo-wood fiber panels



carbon crystal panels



fire-resistant gypsum boards

Floor System





Ceramic tiles

The flooring system is built on a stable steel-structure base and can be finished with ceramic tiles or SPC stone-plastic flooring according to the requirements of different spaces. The overall structure provides reliable stability and load-bearing performance, while the flooring materials offer excellent wear resistance, moisture resistance, and easy maintenance. The system is suitable for residential, office, commercial, and multifunctional spaces.



SPC stone-plastic flooring

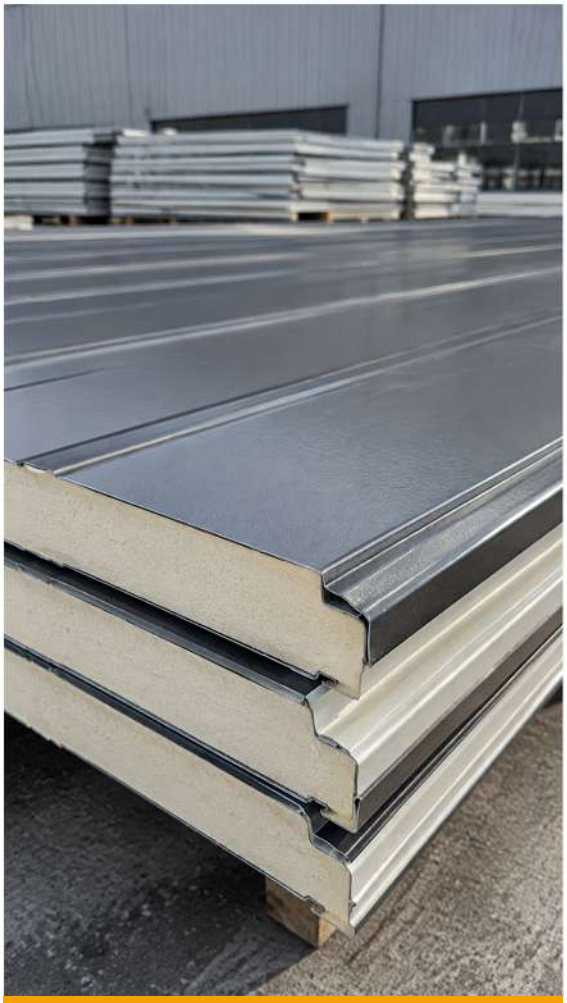
Roof System



The roofing system uses a lightweight steel structure as its primary load-bearing framework and can be finished with asphalt shingles or polyurethane edge-wrapped composite panels to create a complete composite roof assembly. The system combines waterproofing, thermal insulation, heat resistance, weather durability, and wind resistance, while its lightweight materials and efficient installation provide both reliable performance and a clean, modern appearance.



Ceramic tiles



polyurethane-edged composite panels

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Whole-House Solutions

for Steel Structure House

01 Living Room Collection



02 Bedroom Collection



03 Kitchen Collection



04 Bathroom Collection





Modern Minimalist

Modern Luxury



Architectural Style Options



European Style

American Farmhouse



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Architectural Style Options



Japanese Minimalist



Scandinavian Style



Industrial Style



Tropical Resort Style

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Completed in Only 30 Days

Steel structure buildings adopt a 100% factory prefabrication model. All components are manufactured in smart factories with millimeter-level precision. On-site work only involves rapid modular assembly. An 8-person construction team can finish the entire process of a 300㎡ villa — from structural assembly to interior finishing — within 30 days. Its efficiency is more than three times higher than that of conventional construction methods. With advantages including all-weather construction, industrial-grade quality assurance and green building practices, this construction method redefines the standards for modern residential development.



Foundation Works (Day 1~2)

Accurate layout, ground treatment and concrete pouring to form a solid base.



Main Structure Works (Day 2~12)

Prefabricated steel components are hoisted on site to build the main load-bearing frame.



Envelope Works (Day 12~20)

Precast wall and roof panels installed to seal the building exterior shell.



Interior Finishing Stage (Day 20~28)

Utility routing and interior panel assembly for fast full-house fit-out.



5. Final Inspection & Completion (Day 28~30)

Full acceptance check, defect rectification and site cleaning for handover.



Project Cases

01

Light steel Apartment
Location:Phnom Penh, Cambodia
Building Area:3,100 Square meters

02

Light Steel Hotel
Location: Mongolia
BuildingArea: 4,150 Square meters



03

Light Steel town house
Location:Thailand
BuildingArea: 1,050 Square meters





04

Light steel Apartment
Location:Australia
Building Area:170 Square meters



05

Light steel Apartment
Location:France
Building Area:210 Square meters



06

Light Steel Hotel
Location: Vietnam
BuildingArea: 5,480 Square meters



07

Light Steel Homestay
Location: Indonesia
BuildingArea: 2,180 Square meters

Project Cases

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Global Customer Service

01 Project Consultation

Our professional team provides tailored needs assessments and project planning to meet your specific requirements.

02 Customized Design

We deliver customized building solutions tailored to different applications, project requirements, and customer preferences.

03 Global Delivery

With an integrated supply chain, we support international logistics and project delivery to customers worldwide.

04 After-Sales Support

We provide ongoing technical guidance and reliable after-sales support to ensure long-term customer satisfaction.



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