# 北新房屋 BNBM HOUSE

让居住安心/放心/舒心

Cozy, Reliable, Comfortable

北京市昌平区回龙观西大街118号龙冠置业大厦8层

8F, Longguan Real Estate Building, No. 118 Huilongguan West Street, Changping District, Beijing



www.bnbmhouse.com.cn
bnbmhouse@bnbmg.com
4000836601 **6** bnbmhouse@bnbmg.com.cn

北新房屋有限公司 BNBM House Co., Ltd.





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## 将住宅产业化的旗帜高 高举起, 共建生态文明、 美丽中国

Holding high the banner of housing industrialization to jointly build an ecological civilization and beautiful China

40年前,北京新型建筑材料厂建设的目的是建设房屋工厂生产

40年后,中国建材集团不忘初心,仍把装配式建筑、住宅产业化 作为一项重要工作大力推动;

我们要高举住宅产业化的旗帜,坚决践行"绿水青山就是金山 银山"的绿色发展理念,大力发展装配式建筑,共建生态文明、

40 years ago, the Beijing New Building Material General Factory was built and aimed to manufacture houses in factory;

40 years later, China National Building Materials Group has never forgotten its original aspiration, and still vigorously promotes the prefabricated buildings and housing industrialization as its important work;

We shall hold high the banner of housing industrialization, firmly practice the green and sustainable development conviction that "lucid waters and lush mountains are invaluable assets", energetically develop the prefabricated buildings, and jointly build ecological civilization and beautiful China.

Company Profile

北新绿色装配式建筑

BNBM Green Prefabricated Building

安全舒适的新型房屋 Safe and Comfortable

让居住安全放心

Good reputation as central government owned enterprise / lifelong service

全过程保障房屋品质 Whole-process House 综合方案解决商 **Integrated Solution** 

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## 公司简介

**Company Profile** 

历经改革发展,不断探索创新 北新始终牢记伟人的殷殷期望,始终坚守做"房子大王"的初心 实现了从新型房屋到绿色小镇的跨越 实现了从制造业到制造服务业的产业升级 我们,始终在路上......

After years of reform and development, with continuous exploration and innovation, BNBM HOUSE always keeps in mind the lofty expectations of its great originators and always adheres to its mission of being a leader of housing industry.

BNBM HOUSE has succeeded in building green towns with its new-type houses; and has achieved industrial upgrading from manufacturing to manufacturing services. We always keep forging ahead...





## 北新房屋简介

#### About BNBM HOUSE

北新房屋有限公司是世界 500 强央企中国建材集团成员企业,是集团"三新"产业发展平台之一。 北新绿色装配式建筑事业起步于 1979 年,公司成立于 2002 年,是首批国家住宅产业化基地和首 批国家装配式建筑产业基地。

公司拥有完整的绿色装配式建筑产业链,已建成北京、四川、江苏、黑龙江、海南等基地,并已形成全国性的产业布局。通过长期的实践与积累,北新房屋已在高档别墅及住宅、学校、医院、办公楼等中高层公共建筑、旅游度假、美丽乡村建设等领域形成优势,并多次承接灾后援建任务;海外市场也屡获佳绩,在"一带一路"国家和地区项目顺利实施,产品和服务已遍布全球多个国家和地区。

BNBM House Co., Ltd. (BNBM HOUSE) is affiliated to CNBM which is listed in Fortune Global 500, and is one of the "Three-New Industry Development Platforms" of CNBM.

Starting green prefabricated buildings in 1979, BNBM HOUSE was founded in 2002 and was authorized among the first batch of State Housing Industrialization Bases and the first batch of State Prefabricated Construction Industry Bases.

BNBM HOUSE has a complete industrial chain of green prefabricated construction, and formed a national industrial layout by establishing bases in Beijing, Sichuan, Jiangsu, Heilongjiang, Hainan, etc. After long term of practice and accumulation, BNBM HOUSE has formed advantages in luxury villas and residences, schools, hospitals, office buildings and other high-rise public buildings, construction of tourist resorts and beautiful villages and other fields, and has undertaken post-disaster reconstruction for many times. It has also achieved good results in overseas market and has successfully implemented projects in countries and regions along the "Belt and Road". Its products and services have been promoted in many countries and regions around the world.





世界领先的产品技术 World-Leading Technology

产品满足美国 ASTM 标准、澳洲标准、欧盟 EN1090 钢结构等标准,满足欧盟 2020 战略要求,向发展中国家输出中国先进的制造技术及规范标准。

Our products comply with the US ASTM standards, Australian standards, EU EN1090 steel structure standards and other standards, and meet the EU 2020 Strategy, to deliver China's advanced manufacturing technology and regulatory standards to other developing countries.



强大的企业实力 Strong Strength

世界 500 强央企中国建材集团成员企业,近二十年对新型房屋的持续研究,遍布世界的配套材料工厂及装配式建筑一体化服务商。

As an affiliate to CNBM which is listed in the Fortune Global 500, BNBM HOUSE has been conducting research on new-type houses for nearly 20 years, and has become a worldwide supporting materials factory and a comprehensive prefabricated construction service provider.



产品与服务遍布全球 Products and Services Sold all over the World

目前已在亚洲、欧洲、美洲、澳洲、非洲等多个国家和地区建造项目,具有丰富的海外大型工程经验。在坦桑尼亚等地区建立了办事处。

At present, BNBM HOUSE has finished construction projects in many countries and regions such as Asia, Europe, America, Australia and Africa, and has accumulated rich experience in large-scale overseas engineering. Moreover, BNBM HOUSE has established offices in areas such as Tanzania.



有效降低项目风险,海外施工便捷高效

Project Risks Effectively Reduced, Making Overseas Construction Convenient and Efficient 设计、生产、运输、施工、融资一条龙服务,比较优势强,项目风险大幅降低。建造便捷,当地工人经简单培训可施工,解决海外项目施工难的问题。

Integration of design, production, transportation, construction and financing provides strong comparative advantages and significantly reduced project risks. Convenient construction allows local workers to start construction after simple training, a great solution to construction challenges for overseas projects.

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## 1979<sub>#</sub>

## 邓小平同志视察指示

Deng Xiaoping's visit and directive

邓小平同志视察基地,指示"大力发展新型建材,把工厂办好;把用新型轻质建筑材料建造的房屋质量搞得好上加好,让农民住得起、住得上。"

Deng Xiaoping visited the base and gave a directive to "vigorously develop new building materials business and make the factory prosperous; and use new lightweight building materials to build better-quality new-type houses that are affordable for farmers."

**2002**年

## 首批国家住宅产业化基地 第一代轻钢房屋

One of the first batch of State Housing Industrialization Bases First-generation light-gauge steel houses

首批国家住宅产业化基地;与日本三菱、新日铁、 丰田房屋全面合作,引入日本 KC 体系技术,推出 了第一代轻钢房屋。

BNBM HOUSE was authorized among the first batch of State Housing Industrialization Bases. It cooperated with Mitsubishi Corporation, Nippon Steel Corporation and Toyota Motor Corporation to build the first-generation light-gauge steel houses.

2010 #

## 第二代工厂化房屋

Second-generation factorized house

技术持续升级,整合澳大利亚、新西兰 的房屋技术,推出北新第二代工厂化 房屋。

With continuous upgrading of technology, BNBM HOUSE integrated the housing technologies of Australia and New Zealand, and promoted its second-generation factorized houses. 2012

#### 第三代"圆梦"生态化房屋 Third-generation "Dream" eco-house

全面提升了房屋节能环保性能及舒适度, 研发了第三代"圆梦"生态化房屋。

With the overall energy-saving and environmental protection performance and comfort level of the new type houses improved, BNBM HOUSE developed the third-generation "Dream" eco-houses.

**2013**<sub>年</sub>

## 打造"零能耗"太阳屋

Zero-energy solar house ("O-House")

与清华大学、美国佛罗里达大学共同 参加"国际太阳能十项全能竞赛",打 造"零能耗"太阳屋,综合成绩全球第 五,三个单项奖第一。

BNBM HOUSE cooperated with Tsinghua University and the University of Florida to participate in the "International Solar Decathlon" to create "O-House", and ranked fifth for overall performance and first for three individual categories.

2018

#### 参编国家标准参加国际赛事

Participation in the preparation of national standard and in international competition

参编国家标准《轻钢龙骨式复合墙体》 JG/T544-2018;参编西藏自治区《高 原装配式钢结构建筑技术标准》 DBJ540003-2018;与北京交通大学 共同参加"国际太阳能十项全能竞 赛",综合排名全球第五,两个单项奖 排名第一。

BNBM HOUSE participated in the preparation of the national standard Light-gauge Steel Framing Wall Panel (JG/T544-2018) and the Technical Code for Assembled Steel Structure Buildings on Plateau (DBJ540003-2018) of Tibet Autonomous Region, and participated in the "International Solar Decathlon" with Beijing Jiaotong University, and ranked fifth for overall performance and first for two individual categories.

1993<sub>#</sub>

## 建成钢结构房屋生产线

Steel structure housing production line

建成门式钢架及岩棉复合板体系的钢结构房屋工厂生产线。

BNBM HOUSE established the production lines of steel structure housing built with portal frame and rock wool system.

**2003**年

#### 编制企业标准

Preparation of enterprise standard

编制第一部企业标准《薄板钢骨建筑体系技术规程》QBH-1-2003。

BNBM HOUSE prepared the first enterprise standard Technical Specification for Steel-Framed Building System with Light-gauge Steel Shapes (QBH-1-2003).

2011<sub>年</sub>

### 参编行业标准

Participation in the preparation of industry standard

是行业标准《低层冷弯薄壁型钢房屋建筑技术规程》JGJ227-2011的核心参编单位。

BNBM HOUSE is the core organization for the preparation of the industry standard Technical Specification for Low-rise Cold-formed Thin-walled Steel Buildings (JGJ227-2011).

 $2016_{\scriptscriptstyle{\#}}$ 

## 第四代"梦之屋"

Fourth-generation "Dream House"

数年如一的技术创新,整合绿色建筑、绿色能源与智能家居技术,推出了北新第四代"梦之屋"——加能源 5.0 房屋。

After years of technological innovation, integration of green building, green energy and smart home technology, BNBM HOUSE launched the fourth-generation "Dream Houses" - Energy Plus 5.0 House.

**2017**<sub>4</sub>

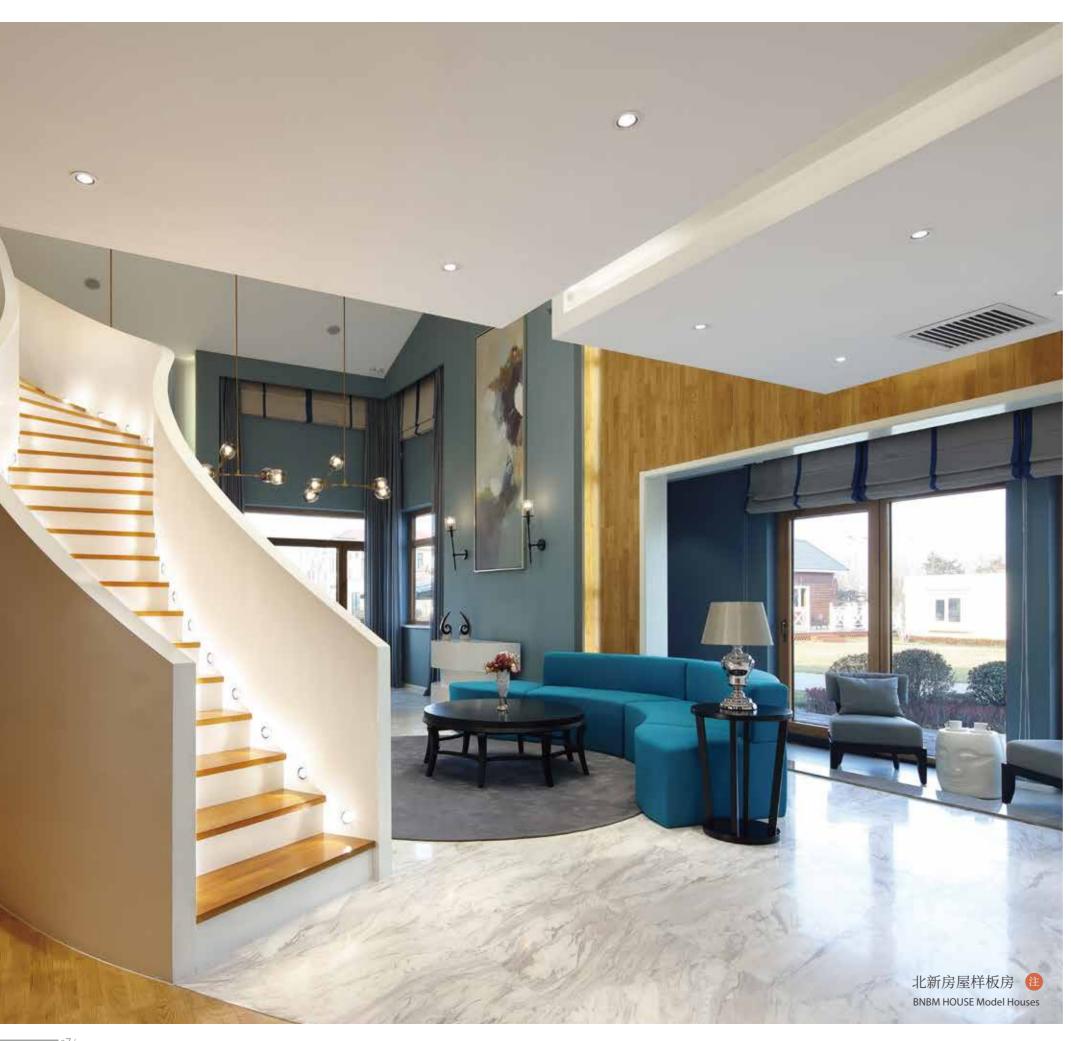
### 首批装配式建筑产业基地

One of the first batch of State Prefabricated Building Industry Bases

被住建部评为国家首批装配式建筑产业基 地,参编国家标准《装配式建筑评价标准》 GB/T 51129-2017。

BNBM HOUSE was authorized among the first batch of State Prefabricated Building Industry Bases by the Ministry of Housing and Urban-Rural Development, and participated in the preparation of the national standard Standard for Assessment of Prefabricated Building (GB/T 51129-2017).

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# 02

# 北新绿色装配式建筑

BNBM Green Prefabricated Building

装配式建筑是欧美日等发达国家普遍采用的建筑形式 北新绿色装配式建筑基于标准化、集成化、工业化、信息化 不仅仅是建造工法向绿色环保的改变 更是代表了当代先进建造技术的发展水平

Prefabricated buildings are commonly used in developed countries such as Europe, America and Japan.

BNBM green prefabricated building is based on standardization, integration, industrialization and informationization.

It is more than just a shift of construction methods towards the green and environmental protection concept,

and also represents the development level of modern advanced construction technology.

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# 中国绿色装配式建筑行业领军企业

A Leader in China's Green Prefabricated Building Industry



#### 近二十年的持续探索,技术积累

Continuous exploration and technology accumulation in the past two decades.



#### 首批国家住宅产业化基地(2002年) 首批国家装配式建筑产业基地(2017年)

Authorized among the first batch of State Housing Industrialization Bases (2002).

Authorized among the first batch of State Prefabricated Building Industry Bases (2017).



参编《装配式建筑评价标准》(GB/T 51129-2017)、《低层 冷弯薄壁型钢房屋建筑技术规程》(JGJ227-2011)、《轻 钢龙骨式复合墙体》(JG/T 544-2018)、《西藏自治区高 原装配式钢结构建筑技术标准》(DBJ540003-2018)等 多项国家及行业标准

Participating in the preparation of a series of national and industry standards, such as Standard for Assessment of Prefabricated Building (GB/T 51129-2017), Technical Specification for Low-rise Cold-formed Thin-walled Steel Buildings (JGJ227-2011), Light-gauge Steel Framing Wall Panel (JG/T544-2018) and the local standard of Tibet autonomous region Technical Code for Assembled Steel Structure Buildings on Plateau (DBJ540003-2018).



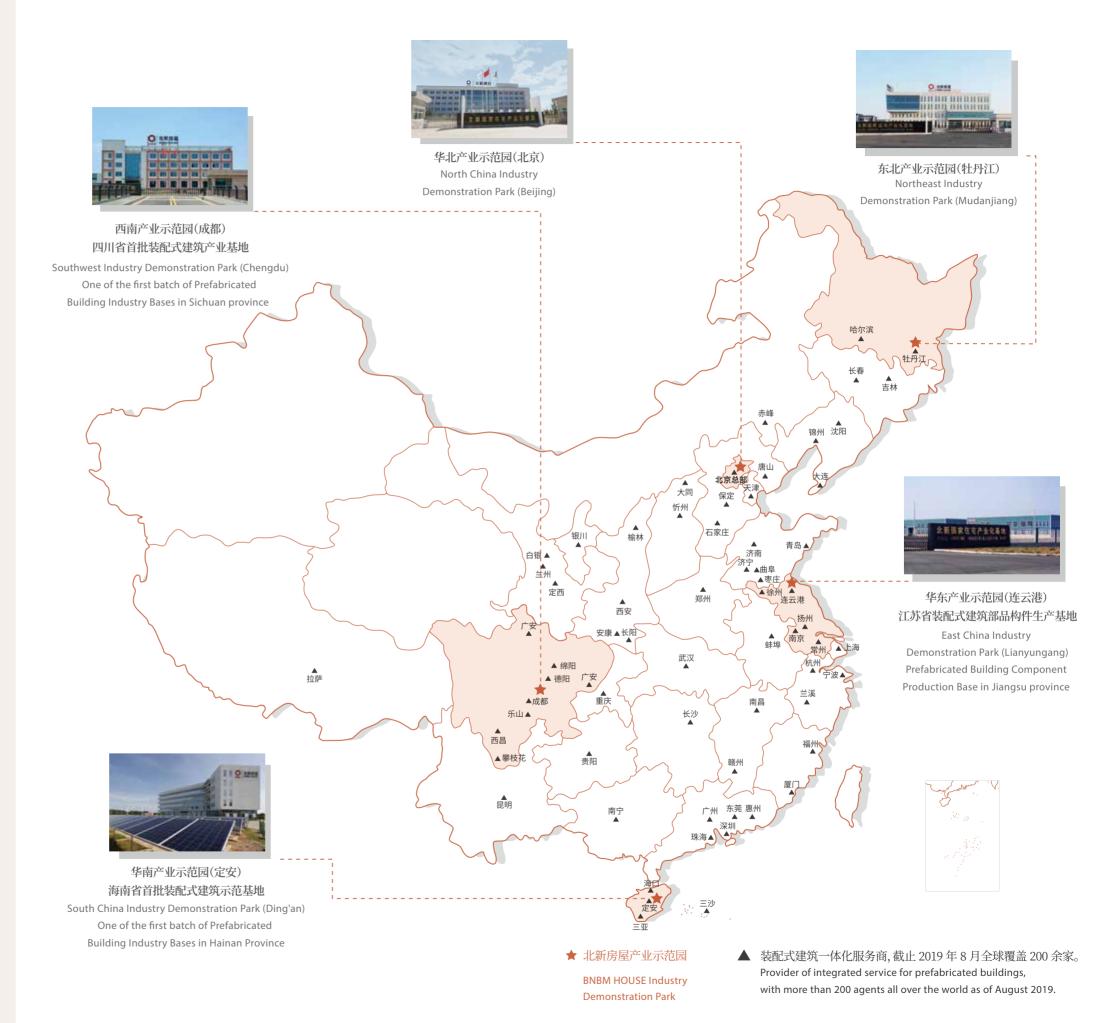
180 余项技术专利,参与 2 项国家十三五专项课题研究 和 1 项国家自然科学基金项目

BNBM HOUSE has more than 180 technical patents, and has participated in 2 programs under the 13th Five-Year National Special Subject Research and 1 program supported by National Natural Science Foundation of China (NSFC).



# 国家住宅产业化基地中华人民共和国建设部

二零零二年十一月十八日



/104

## 0 标准化设计 1 Standardized Design



应用CAD及CAM系统联动进行数字化设计,菜单式选择,套裁下料,并全面建立BIM数据库。

CAD and CAM systems are used for digital design, menu selection, jacking blanking, and the BIM database is completely established.

工厂预制,现场吊装与简单拼装,具有丰富实操经验的产业化工人,高精度安装工艺确保房屋品质。干法作业,北方冬季可施工。单栋 200 ㎡建筑,7 天完成主体结构安装,60 天内完成室内外精装修。

Factory prefabrication, on-site hoisting and simple assembly, industrial workers with rich practical experience, high-precision installation process to ensure the quality of BNBM houses. Dry operation makes construction possible in North China in winter. For a single building of 200 m², it takes 7 days to finish the main structure installation and up to 60 days to finish interior and exterior decoration.



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## 工厂化定制 Factory Customization

大规模工业化生产,全程信息化管理,工厂加工精度精确到毫米,提高后期安装速度与工程质量。

Characterized by large-scale industrial production, full-scale information management, factory processing with accuracy up to the millimeter, the installation speed and engineering quality are improved.



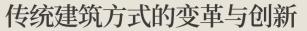
## 装配化施工 Prefabricated Construction



4

## 一体化内装

Integrated Interior Decoration



Transformation and Innovation of Traditional Construction



工业一体化内装,避免二次装修,节省精力与成本,提升住宅品质。可有效集成各种可再生能源、智能家居、能源管理等最新技术,打造绿色生态智能房屋。

Industrial integrated interior decoration avoids secondary decoration, saves energy and cost, and improves houses quality. BNBM HOUSE can effectively integrate the latest technologies such as renewable energy, smart home and energy management to create ecological smart houses.

基于信息化平台,全面准确指导装配式建筑从设计、生产、物流、施工、运维及管理全生命周期各流程。并在房屋建成后,运用信息化手段对房屋智能家居、能源使用情况进行统一管理。

An information platform is used to comprehensively and accurately guide each process during the entire life cycle of the prefabricated building, from the design, production, logistics, construction to operation, maintenance and management. After the completion of the housing, information technology will be used to manage the smart home system and energy use of the housing.



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## 信息化管理 Information Management

## 北新房屋的七大装配式系统

Seven Prefabricated Systems of BNBM HOUSE

#### 装配式卫生间 Prefabricated toilet

- ·装配式吊顶和墙体防水性好
- ·便于安装, 易清洗
- ·具有物理防水与自研排水系统

Prefabricated ceiling and wall with excellent waterproofness Easy to install and clean

With physical waterproof and self-developed drainage system

## 装配式屋面系统 Prefabricated roofing system

- ·现场快速安装,节省人工
- ·超强的防水性
- ·材料环保安全无甲醛
- ·免批嵌、免粉刷,防止开裂、脱落
- ·A级防火材料

Quick site installation to save labor cost

Superior waterproof performance

Environmentally safe and formaldehyde-free materials

Free of puttying and painting, cracking and falling off is avoided

Class A fireproof materials

#### 装配式设备/管线系统 Prefabricated equipment / pipeline system

- ·无需二次安装处理
- ·使用简便,方便维修
- ·集成设备方便使用, 无需二次采购
- ·免开槽、即插即用、杜绝安全隐患

No need for secondary installation

Easy to use and repair

Equipped with integrated equipment, no secondary purchase required No need for slotting, equipped with "Plug and Play", so that safety hazards are eliminated.





## 装配式墙体系统

- ·工厂预制, 现场安装, 方便快捷, 安全可靠
- ·保温隔热性强
- ·材料环保无甲醛
- ·免开槽,防止墙皮开裂、脱落
- ·易清洁, A级防火材料

Factory Prefabrication, on-site installation: convenient, fast, safe and reliable Strong thermal insulation

Environmentally safe and formaldehyde-free materials Free of slotting to prevent wall cracking and falling off Easy to clean; Class A fireproof materials

#### 装配式厨房 Prefabricated kitchen

- ·装配式吊顶和墙体防潮性强
- ·便于安装和清洗
- ·装配饰面与橱柜统一集成
- ·管线分离与设备末端集成

Prefabricated ceiling and wall with excellent moisture-proofness Easy to install and clean

Unified integration of decoration veneer and cabinets Pipeline separation, and integration with devices at terminals

#### 装配式楼梯 Prefabricated staircase

- ·造型简洁,结实耐用
- ·易安装, 材料环保安全无甲醛

Simple and durable

Easy installation; environmentally safe and formaldehyde-free materials

## 装配式楼面系统 Prefabricated flooring system

- ·免找平,免二次装修
- ·安装高效便捷

Free of leveling and secondary decoration Efficient and convenient installation

## 全生命周期的生态房屋

Full-lifecycle Eco-house

大力发展装配式建筑是党中央、国务院的决策部署,是建筑行业建造方式的重大变革和发展举 措。北新房屋从材料、设计、生产、搭建到居住、建筑物终老,均以环保性为原则,是全生命周期的 生态房屋。

Vigorously developing prefabricated buildings is the decision-making deployment of the CPC Central Committee and the State Council, and is a major change and development strategy in the construction industry. BNBM houses are eco-houses throughout the whole life cycle because they are based on the principle of environment protection, from the materials, design, production, construction to the residence and the end of life of the buildings.



100% 环保材料

100% environment-friendly materials



#### 绿色建造,仅需传统建筑 施工用水量的 10%

Green construction, saving 90% water compared with traditional construction method



建筑节能 75% 以上标准

**Building energy** conservation of more than 75%



90%以上的材料可回收、 循环再利用

> More than 90% of materials recycled and reused



减少 7.23 吨碳排放

Carbon emissions reduction by 7.23 tons



节约 3.45 万块粘土砖

34,500 pieces of clay bricks saved

(碳排放和粘土砖的数据以150平米北新绿色装配式住宅对比传统住宅为例)

(The data of carbon emissions and clay bricks are based on the comparison between a 150m<sup>2</sup> BNBM prefabricated house and a 150m<sup>2</sup> traditional house)

## 北新房屋(200平米)

#### (9) 总时间 60 天



测量放线完成 Survey and setting-out completed



一层墙体安装完成



楼板、楼梯安装完成



二层墙体安装完成 Wall system of the 2nd floor installed



屋面安装完成



整体厨房、卫生间部品部件 安装完成



室内装修装饰完成



外墙、房屋整体室内外细部 处理完成



测试保洁验收竣工 Test, cleaning, acceptance inspection

60 DAYS





## 传统房屋(200平米)

## ② 总时间 120+N 天



测量放线完成 Survey and setting-out completed



一层墙体砌筑完成

Masonry works for wall system of the 1st floor finished



楼板、构造柱支模, 混凝土浇筑完成

Floorslab, structural column formwork concrete pouring finished



120

N

天

60 天

二层墙体砌筑完成 Masonry works for wall system of the 2nd floor finished



混凝土养护完成 Concrete curing finished



屋面、构造柱支模、 混凝土浇筑完成

Roofing, structural column formwork, concrete pouring finished



混凝土养护完成 Concrete curing finished



外墙粗抹灰、屋面防水完成

Rough-cast plastering for exterior wall and waterproofing of the roof finished



室内粗抹灰完成

Rough-cast plastering of interior wall finished





屋面、外墙面层装饰完成 Finishing of roof and exterior wall finished



室内水电、细部装修完成 Indoor water and electricity facilities, detailed decoration finished



测试保洁验收竣工



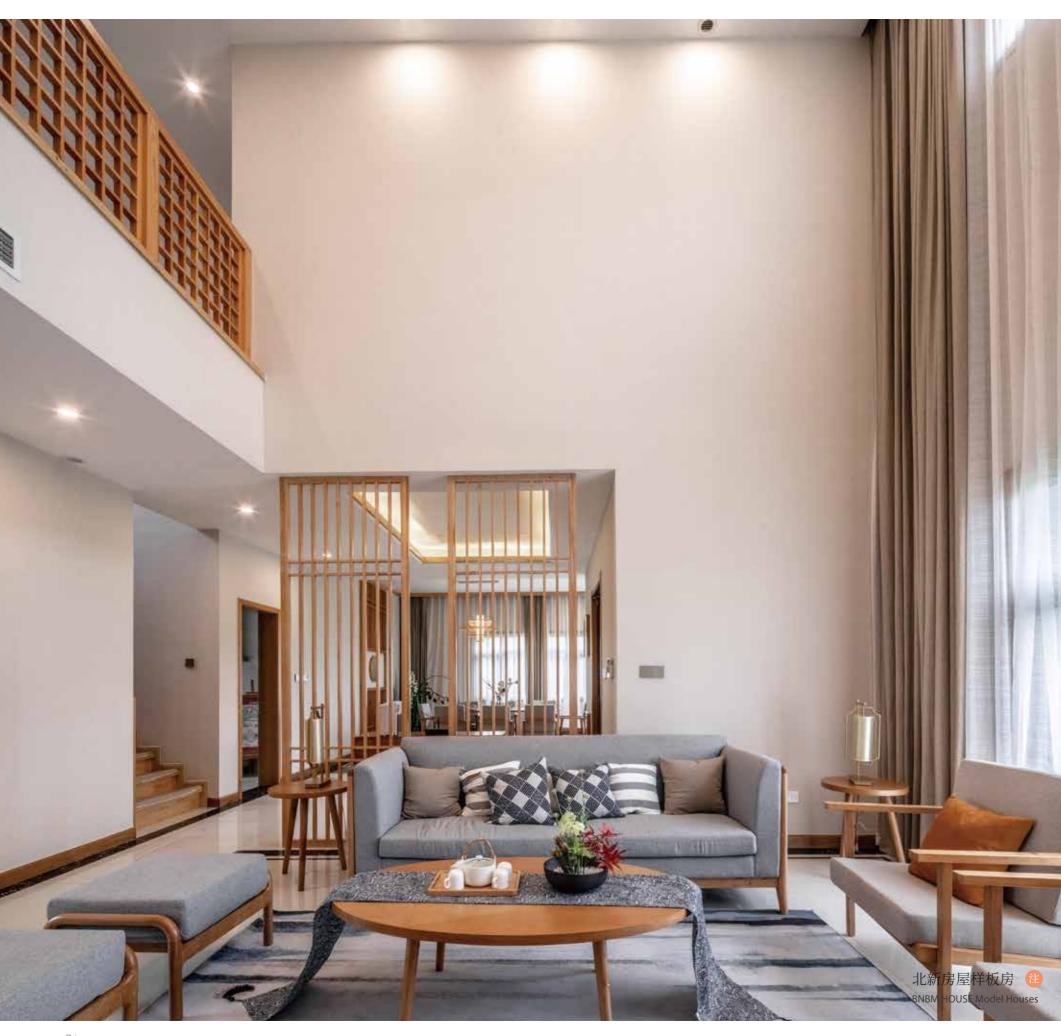
天气影响



人工素质



通风散味



# 03

# 安全舒适的新型房屋

Safe and Comfortable New-type House

安全与舒适,是人们对房屋永恒的追求 北新房屋汲取世界各地先进的房屋技术 自主创新,持续优化 力求让居住者住上安心、放心、舒心的梦想居所

Safety and comfort are our eternal requirements for houses BNBM HOUSE learns from advanced housing technology abroad pursues independent innovation and sustained optimization and strives to build safe, reliable and comfortable houses

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满足9度抗震烈度设防要求

可抵御12级台风

## 抗震防风

Anti-seismic and Anti-wind

Meeting the requirement of seismic intensity for  $\frac{9}{2}$  degrees / Resistant to typhoon with a force  $\frac{12}{2}$ 







自重轻 水平作用力小 Small dead weight Small horizontal force

自重重 水平作用力大 Large dead weight Large horizontal force



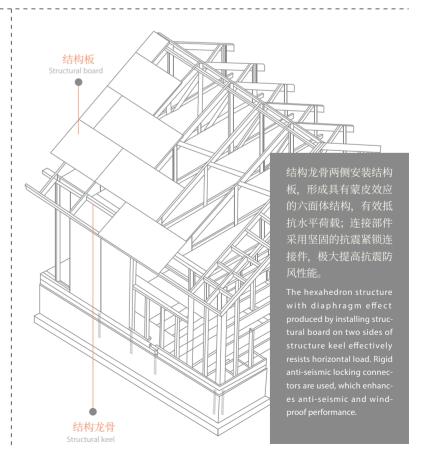
自身刚度大 具有较好的延性

Large rigidity Good ductility



自身刚度小 延性较差

Small rigidity Poor ductility



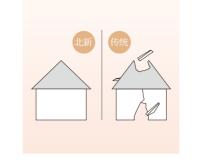
## 地震模拟振动试验

### **Earthquake Simulation Vibration Test**

北新房屋与重庆大学合作完成地震模拟振动试验。

BNBM HOUSE completes the earthquake simulation vibration test with Chongqing University.





北新房屋主体结构为高强度、高耐候的钢骨结构体系,高耐候螺栓连接,形成整体柔性结构,当遇到自然灾害如地震、海啸等,能卸载外力,释放巨大外力对房屋所产生的剪切或变形应力,确保房屋整体安全。

Main structures of BNBM houses are steel keel structure systems with high strength and high weather resistance. An overall flexible structure is formed by connecting high weather proof bolts. In case of an earthquake, tsunami and other natural disasters, the houses can unload external force, and release shear or deformation stress produced by external force, thus ensuring overall safety.



#### Guang'an — Wind #13

2015年4月4日,广安市武胜县13级大风造成部分民房倒塌和人员伤亡,北新房屋建设的"花儿开了"酒店未受任何损毁。

On April 4, 2015, a wind at Scale 13 hit Wusheng County, Guang'an City, causing collapses and casualties. Huaerkaile Hotel built by BNBM HOUSE withstood the heavy wind without any damage.





## 汤加 - 超强飓风"基塔"

#### Tonga — Hurricane Gita

2018年2月12号,超强飓风"基塔"造成汤加努库阿洛法大面积房屋受损,一些房屋的屋顶被直接掀飞,而北新房屋建设的汤加大使馆安然无恙。

On February 12, 2018, Hurricane Gita hit Nuku Alofa, Tonga, causing heavy damages to houses. In some cases, the roof was destroyed. The Chinese embassy built by BNBM HOUSE managed to stay unscathed.

















maximum peak acceleration is 0.4. The houses can stand earthquakes without damage, and meet the lirements of Magnitudes 8 and 9 seismic precautionary nsity set out in the national code.

国规范的 8 度罕遇、9 度设防的要求。 速度峰值最高达到 0.4g,房屋无任何损伤,达

## 九寨沟 -7 级地震

#### Jiuzhaigou — Magnitude 7 earthquake

2017 年 8 月 8 日,四川九寨沟县发生 7 级地震, 大量房屋严重受损,北新房屋在九寨沟建设的个 人住宅安然无恙。

On August 8, 2017, a Magnitude 7 earthquake hit Jiuzhaigou County, Sichuan, causing serious damages to houses. A local residential complex built by BNBM HOUSE stood unscathed.





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## 防火性能

## **Protection Against Fire**

北新房屋 BNBM HOUSE

北新房屋采用复合型围护墙体,防火重点部位采用A级不燃型防火材料,外墙耐火极限超过2小时,内墙耐火极限超过1小时,火灾发生时可以防止火势蔓延,有充分的人员逃生时间。

TO SERVINGATO

THE SERVINGATO

THE SERVINGATOR

THE SERVI



**Exterior wall** 

120分钟后未丧失隔热性和完整性 Maintaining insulation and integrity for 120 minutes

耐火极限超过<mark>2</mark>个小时 Fire resistance rating exceeds 2 hours BNBM houses are provided with composite enclosure walls. Key fire-proof parts are protected by Class A incombustible fireproof materials. The fire resistance rating of exterior walls exceeds 2 hours, and that of interior walls exceeds 1 hour. Such fire resistance can stop the spread of a fire, and give people more time to escape.





Interior wall

60 分钟后未丧失隔热性和完整性 Maintaining insulation and integrity for 60 minutes

耐火极限超过<mark>1</mark>个小时 Fire resistance rating exceeds 1 hour





## 通风防潮 / 保温隔热

#### Ventilation and Moisture-proofness/Thermal Insulation

无论是夏天还是冬天,都能给您带来舒适的空间。

No matter what summer or winter, BNBM houses can provide a comfortable space.



#### 北新房屋的屋面、墙体、地面六面保温

Six-side insulation by roofing, walls and flooring of BNBM houses



保温隔热 / 通风防潮的墙体 Wall Featuring Thermal Insulation / Ventilation and Moisture-proofness

先进的保温隔热技术,节省用电成本,高气密性,杜绝返潮结露现象,独特的单向 呼吸层及通风间层设计。

Advanced thermal insulation technology, reduced electricity cost, high airtightness, prevention from dampness and condensation, unique unidirectional breathing layer and ventilation interlayer design.



#### 冬暖夏凉的居住环境

Living environment that is warm in winter and cool in summer



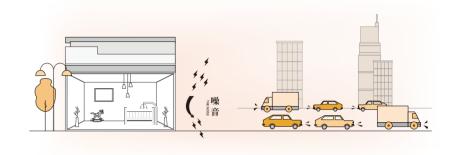
## 隔声降噪

#### Sound Insulation and Noise Reduction

#### 复合墙体 Composite wall

北新房屋的墙体是由不同厚度、不同材质的材料与结构龙骨复合而成,且空腔内填充隔声材料。

The walls of BNBM houses are produced by combining structural keels with differential materials that vary in thickness, with the cavities filled with sound insulation materials.







#### 专业检测 Professional testing

墙体隔声量大于50分贝,超过五星级酒店的隔音效果。

The sound reduction index of walls is greater than 50 dB, making the houses more effective in sound insulation than a 5-star hotel.

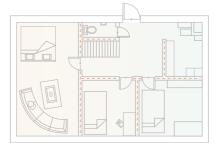
## 布局灵活 / 得房率高

### Flexible Layout/High Space Availability

可以根据功能需求变化室内布局,一房住三代。

Interior layout can be changed on the basis of functional requirements, so that three generations can live in one house.







墙体厚度为传统结构的 1/2
Wall thickness is 1/2 of traditional structure

套内面积增加约 10%
Unit construction area is increased by about 10%

 $\mathbb{Z}^{25}$ 

# 04

# 全过程保障房屋品质

Whole-process House Quality Guarantee

质量和信誉——公司永恒的追求 正因如此,北新房屋把产品质量视为重中之重 在设计、选材、施工、售后各个过程加强品质保障 只为了居住者能更加安心

Quality and reputation — eternal pursuit

This is why BNBM HOUSE focuses on product quality

It strengthens quality assurance in design, material selection,

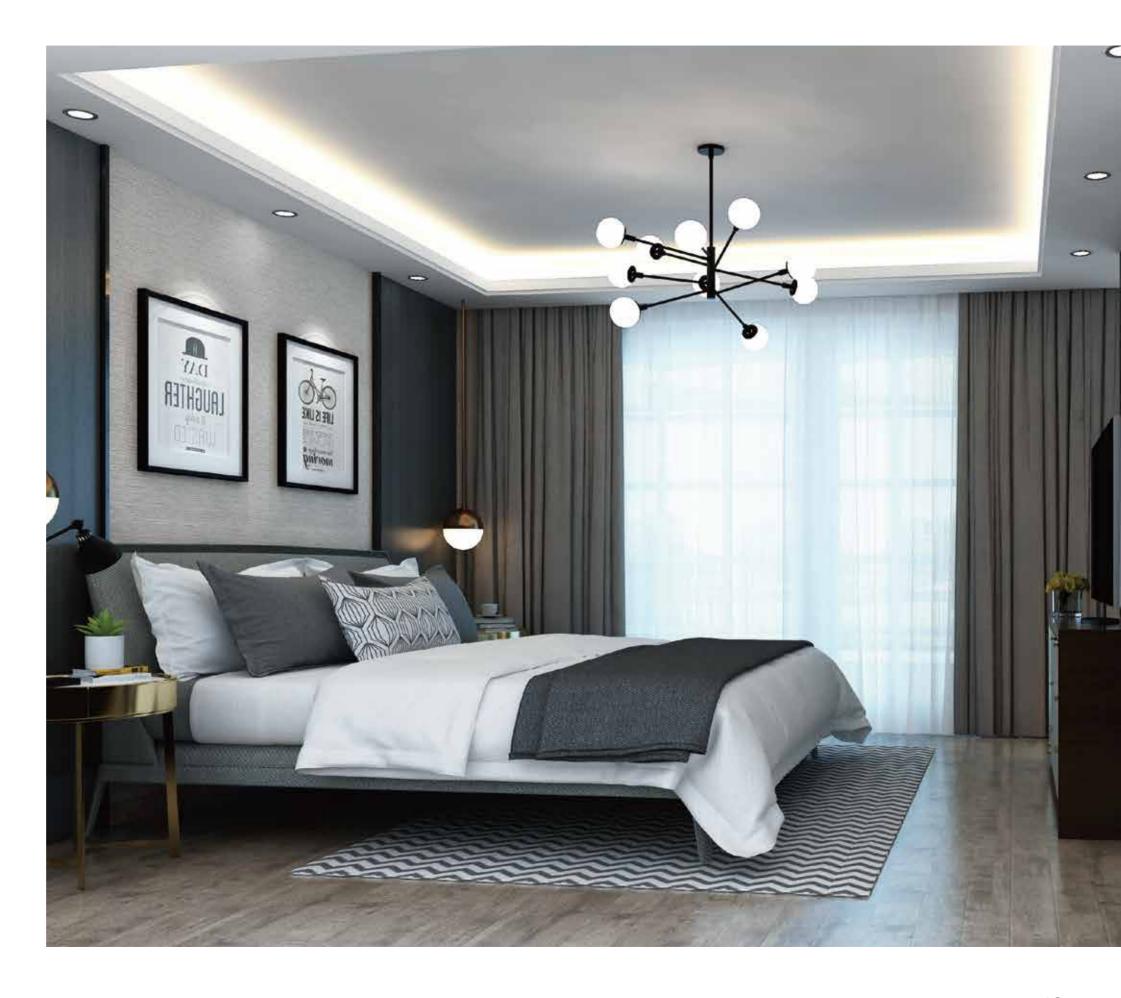
construction and after-sale service

just to build reliable houses for people



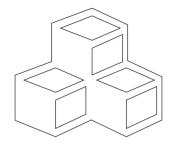
北新房屋一贯坚持质量上上的"五好"房屋质量方针

BNBM HOUSE stays committed to the policy of providing ideal houses with excellent design, superior materials and reliable construction methods and offering corresponding outstanding services



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## 材料房屋一体化

Integration of Materials and Housing

#### 好材料打造好房屋

Good materials lead to good houses

绿色建材 Green building materials







北新房屋是国内唯一一家实现"材料房屋一体化"的房屋公司。与国内众多其他房屋公司集成采购的模式不同,北新房屋的主 体结构及核心部品均采用中国建材集团自主生产的业内最优、品牌价值最高的"龙牌"等系列产品、以服务于奥运、世博、国家 重点工程乃至获得鲁班奖的高端产品品质来确保房屋的整体品质和质量。

BNBM HOUSE is the only one Chinese housing company that realizes the integration of materials and houses. Compared to the mainstream mode of integrated procurement in China, the main structure and core components of BNBM houses come from CNBM's "Dragon" and other series products featuring the best quality and highest brand value in the industry. The products we use to build houses have been used in the Beijing Olympic Games, Shanghai World Expo and national key projects and even have received Luban Prize.

#### 严格的检验 Strict inspection



所用材料均为国家权威检测机构检测合格的绿色建材, 并设置 完备的材料进厂二次检验制度,确保材料性能全面符合项目各 项技术要求。

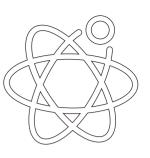
All materials are green building materials that have passed the inspection by national authoritative testing centers. A well-established secondary inspection system is in place to ensure full compliance with various technical requirements.



**BNBM HOUSE** 

## 领先的技术水平

### Leading Technology



#### 技术成就

#### Technological achievement



获得授权专利 180 余项 Over 180 granted patents

集团拥有建筑设计甲级资质设计院和自主知识产权的房屋技术,多项国家及地方 标准的参编单位,已获得授权技术专利180余项,参与2项国家十三五专项课题 的研究和1项国家自然科学基金项目。

The group has a building design Class A qualification design institute and proprietary housing techniques, and has been granted over 180 technological patents. The group participated in the preparation of national and local standards, 2 national science and technology major projects during the 13th Five-year Plan period and 1 NSFC project.





Participated in the compilation of a number of standards

#### 持续讲步

#### Sustained progress



"零能耗"太阳屋 Zero-energy solar house



名全球第五,"室内舒适度"等三个单项奖排名 五、两个单项奖第一。

In 2013 Solar Decathlon, the zero-energy solar house developed by BNBM HOUSE in developed by BNBM HOUSE in collaboracollaboration with Tsinghua University and tion with Beijing Jiaotong University ranked University of Florida ranked fifth for overall fifth for overall performance and first for performance and first for three individual two individual awards. awards, including indoor comfort level.

"i-Yard 2.0"房屋 "i-Yard 2.0" house



与清华大学美国佛罗里达大学共同打造的"零 与北京交通大学共同打造的 i-Yard 2.0 房屋, 能耗"房屋。在2013国际太阳能竞赛中综合排 在2018 国际太阳能竞赛中综合排名全球第

In 2018 Solar Decathlon, i-Yard 2.0 house

"加能源"5.0 梦之屋 Energy Plus 5.0 house



集最新的绿色建筑、绿色能源、智能家居技术建成 的绿色生态智能房屋, 可对外输出能源, 并集合新 风除霾系统、雨水收集系统、能源储存与管理系统 等于一体, 是更高端的人性化设计体现。两年内, 除 日常自用电外对外输出近 16300 度电。

As green ecological intelligent houses featuring the latest green building, green energy and smart home technology, Energy Plus 5.0 house combines energy output with fresh air and smog removal, rainwater collection and energy storage and management systems, and represent a high-end people-centered design. In the past two years, it output nearly 16300 kWh apart from electricity for self-consumption.





## 严格的品质管控 Strict Quality Control

视质量为企业生命,连续15年通过ISO9001质量管理体系认证。精细化设计,高品质材料,先进生产工艺,标准化施工,严格 的内部监理制度,确保为居住者提供优质房屋。

Pursuing quality as its priority, BNBM HOUSE has passed ISO9001 quality management system certification for 15 consecutive years. Refined design, high quality materials, advanced production process, standardized construction and strict internal supervision are integral components of

















## 交钥匙服务模式

Turnkey Service Mode



对工程的质量、安全、工期和造价等全面负责,从设计到精装修完成,为客户提供交钥匙服务。

BNBM HOUSE takes full responsibility for quality, safety, construction period and cost. From design to refined decoration, we provide our customers with turnkey service.









交钥匙、拎包入住

Turnkey service





BNBM HOUSE

## 广泛适用

Wide Range of Applications

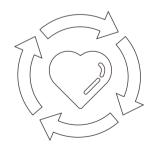
适用于不同气候(严寒、热带)、各种地形地貌(海岛、山地、平地)、各种地质条件(沙漠、岩石、软土)。

BNBM houses are suitable for different climates (frigid, tropical), various topographic features (island, mountain, plain) and various geological conditions (desert, rock, soft soil).

**BNBM HOUSE** 

## 央企信誉 / 终身服务

Good Reputation as Central Government owned Enterprise / Lifelong Service



贴心的服务管家,快速响应的服务机制与完善的服务体 系,在全国建立密集的售后服务网络,终身售后服务。

BNBM HOUSE is your attentive service housekeeper that has a well-established service mechanism featuring quick response, and an intensive after-sales service network across the country whereby lifelong after-sales service is offered.



贴心的服务管家







售后遍布全国











# 05

## 综合方案解决商

Integrated Solution Provider

#### 经过多年积累

北新房屋的产品已广泛应用于高档别墅及住 宅、学校、医院、办公楼等中高层公共建筑、旅游 度假、美丽乡村建设等领域 努力实现客户理想的建筑环境与房屋梦想

#### After years of development

BNBM HOUSE has enabled its products to be widely used in luxury villas and residential buildings, schools, hospitals, office buildings and other mid-high rise public buildings, and in the construction of tourist resorts and beautiful villages, etc.

BNBM HOUSE strives to realize customers' ideal construction environment and dream house.

## 独立住宅

## **Separated Houses**



世界 500 强央企成员企业 技术领先,品质保障,更安心放心

Affiliate to a central enterprise included in the Fortune Global 500.

Leading technology, quality assurance, reliable performance.



百年住宅,抗震防风 居住舒适,冬暖夏凉

100-year residence, protected from earthquakes and wind.

Comfortable house that is warm in winter and cool in summer.



与绿色能源 , 智能家居有机结合 人性化的低能耗住宅

Combination with green energy and smart home system.

People-centered housing with low energy consumption.



得房率高,户型合理 多种经典户型可供挑选

High space availability, reasonable layout. Various classical layout options.



交钥匙工程 省心省力,终身服务

Turnkey project.
Thoughtful life service.



#### 日式风格建筑群

JAPANESE STYLE BUILDING GROUP

建设于2003年,为生活在大连经济技术开发区的日商人士量身打造的家园,虽经风雨侵蚀,却无惧岁月,历久弥新。

Established in 2003 for Japanese businessmen living in Dalian Economic and Technological Development Zone, the project has endured years of wind and rain.

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美式、日式、欧式等建筑风格 精心雕琢 缔造艺术品质 Combination of American style, Japanese style and European style buildings Delicate refining, leading to artistic quality

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全明格局,起居室、休闲室、卧室和餐厅均有良好的视野环境。

Fully open layout, ensuring good view from living room, lounge, bedroom and dining room.



宽大的厨房、卫生间及储物间畅享现代生活。

Wide kitchen, toilet and storage room, providing modern life experience.



落地窗、凸窗、入户花园、主卧、玄关等凸显对品质生活的追求。

French window, bay window, entering household garden, master bedroom and hallway, highlighting the pursuit of quality life.







开阔的客厅,独立的餐厅、休闲厅、露天阳台,一层设置老人房,配有多个卫生间,适合三代同住,方便招待客人。

Wide living room, independent dining room, lounge, balcony, elder's bedroom on F1 and multiple toilets, allowing three generations to live in one house and making it possible to provide a guestroom.





## 旅游度假产品

## Tourist Resort Buildings



绿色施工, 保护景区生态环境。

Green construction, protecting ecological environment in scenic spot.



运输便捷,建造速度快,综合建设成本低。

Convenient transportation, fast construction, low cost of construction.



自重轻,适合山地、湿地、沙漠、 海岛等各类地质条件。

Small dead weight, making it suitable for mountain, wetland, desert, island and other geological conditions.



定制化设计,满足各类度假配套设施的个性化需求。

Customized design, meeting personalized needs for various resort facilities.



保温隔热,运维成本大幅降低。

Thermal insulation, leading to major reduction of O&M cost.







## 墨西哥度假酒店 Mexico Resort Hotel

综合度假酒店,含有露台、厨房、泳池等配套设施。

It is a comprehensive resort hotel with such supporting facilities as balcony, kitchen and swimming pool.













位于郑州雁鸣湖风景区,复合钢结构技术体系应用, 保证了在结构的稳定性基础上, 更加实现了空间大跨 度挑高,独特的欧式风格设计,彰显会所的华丽。

Located in Yanming Lake scenic area, Zhengzhou, the golf club uses a composite steel structure. Under the premise of ensuring structural stability, it provides a large-span heightening. Unique European style design shows the magnificence of the golf club.





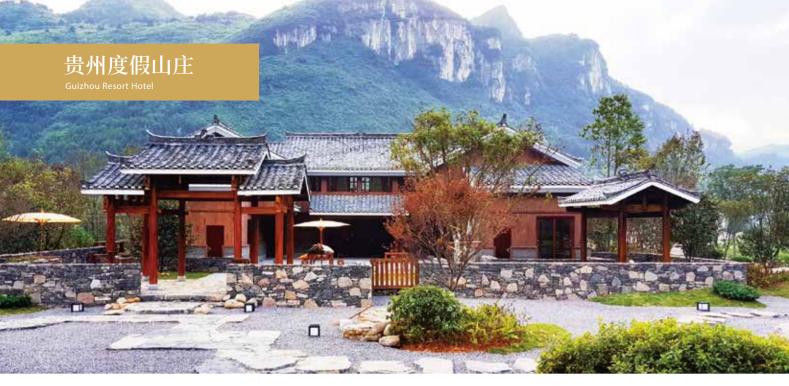
高尔夫俱乐部的配套房屋设施



实现了空间大跨度挑高



独特华丽的欧式风格设计



## 绿色装配式度假山庄

GREEN PREFABRICATED RESORT HOTEL

克服山地运输不便、项目建设周期短等困难,建设的中式山庄。

It is a Chinese style resort hotel that addresses such challenges as inconvenient transportation and short construction cycle.



位于青岛啤酒节主会场, 德式建筑, 多种户型, 从项目承建到交付 仅用 30 天。

Located in the main venue of Qingdao Beer Festival, it is a German style building with various layouts. It took only 30 days to complete construc-



酒店鸟瞰犹如腾飞的巨龙。

多曲面空间异形结构,生产和安装难度极大,仅用50天即完成了施工。

Looking down from above, the hotel looks like a flying dragon.

The multi-surface special-shaped structure poses challenges for production and installation, but it took only 50 days to complete construction.

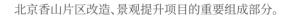




北京动物园内定制动物主题系列商品专卖店,系"一馆一品"最重要、最大的文创特色商店。

It is a customized pelican-themed shop in Beijing Zoo,

and is the most important and largest cultural and creative shop in the "One Pavilion, One Product" campaign.



It is an important component of the Xiangshan Park district reconstruction and landscape improvement project.



包含售检票、母婴室、园区广播室、纠纷调解室等多功能的 综合服务中心。

It is a comprehensive service center with multiple functions, including ticket sales and check, nursery, broadcasting room and dispute settlement room.

## 公共建筑

## **Public Buildings**



设计、生产、采购、施工一体化服务,省心省力。

Thoughtful service featuring design, production, procurement and construction.



装配化建造, 速度更快, 综合建 设成本低。

Prefabrication-based construction, quick construction, low cost of construction.



所用材料均满足环保要求,全生 命周期的绿色建筑。

Environment-friendly materials, full-lifecycle green building.



在学校、医院等项目中, 能更好 呵护体弱人群和学生等群体。

School and hospital projects built by BNBM HOUSE provide good care for students and weak people.





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仅两个月即顺利完工,第三方检测机构对室内空气进行检测,完全符合 I 类民用建筑标准。

It took only two months to complete construction. A third party testing institution tested indoor air, and confirmed its compliance with Class I civil building standard.



北新房屋践行央企社会责任,为孩子们打造了安全舒适的新校舍。

Fulfilling its social responsibility as a central government owned enterprise, BNBM HOUSE has built a safe and comfortable school for students in Lunanying County.



包含中小学教学楼、食堂、实验楼等6栋建筑,建筑面积约19000 m²。

With a floor area of about 19,000 m<sup>2</sup>, the school consists of 6 buildings for primary and secondary students, including teaching building, canteen and laboratory building.



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集办公管理、户籍办证、干警休息文娱、餐厅厨房和警务区等多项功能。

It has multiple functions, including office and management, household registration, cultural recreation, canteen, kitchen and police service.



## 绿色小镇

## **Green Towns**



绿色小镇是中国建材集团较早提出的概念,是北新房屋建设的品牌。绿色小镇一般建有居民区、社区服务中心、超市、邮政、卫生所、学校、托儿所等完善的生活配套。

Green Town is a concept proposed by CNBM, and is a construction brand of BNBM HOUSE. A green town normally consists of such living facilities as residential area, community service center, supermarket, postal service, clinic, school and nursery.



经过近 20 年的积累,北新房屋已在国内外 60 多个国家和地区成功打造绿色小镇示范项目。未来北新房屋将继续完善和丰富绿色小镇的品质和内涵,并在绿色小镇的基础上,串联成片,打造具有规模性并生机盎然的绿色生态城,将为人们提供更节能环保、居住更舒适、对环境更友好的美好家园。

After nearly 20 years of development, BNBM HOUSE has developed green town demonstration projects in over 60 countries and regions. Going forward, BNBM HOUSE will continue to improve and enrich the quality and concept of Green Town, and further integrate green towns into an ecological city featuring vitality, so as to make the living environment more energy efficient, comfortable and environment friendly.





寄托着习总书记对困难群众的关心与牵挂,北新房屋高标准、高质量完成建设任务,在高寒、高海拔地区建设了56栋藏式民居。

Bearing in mind President Xi Jinping's care for impoverished people, BNBM HOUSE completed the project with high standard and high quality by building 56 Tibetan style houses in the high altitude cold area.

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# 北京密云石城镇美丽乡村建设 Shicheng Town Project, Miyun, Beijing





整村新建, 单栋 198 平米含六室三 厅三卫,家家有庭院,户户有车位。

In the new community, each apartment has a floor area of 198m<sup>2</sup>, and consists of six bedrooms, three living rooms, three toilets, a courtyard and a parking lot.

当地村民利用得房率高、使用率高 的特点,做农家院生意,实现了可 观的经济效益。

High space availability and high utilization rate allow local residents to start profitable business.









在邓小平故里建设了多个各具特色的绿色装配式小镇, 提升当地民宅的抗震安全系数、美观度与舒适度, 被评为 当地最美乡村。

BNBM HOUSE built prefabricated green towns with unique features in Deng Xiaoping's hometown, improving the seismic safety factor, attractiveness and comfort level of local residential houses. The project was recognized as the most beautiful village in Guang'an.













携手朗基地产集团的乡村振兴项目,房屋充满四川民居特色,充分考虑地形进行科学规划,形成错落有致的整体布局。

It is a rural revitalization project developed by BNBM HOUSE in collaboration with Longey. The scientific planning and layout of houses combines the characteristics of residential housing in Sichuan with local topographical features.

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建筑面积超过13万平米,是委内瑞拉国家"住房计划"的重要组成部分。 委内瑞拉玻利瓦尔共和国总统、副总统等领导对该项目的规划设计、房屋质量 给予了高度评价,极大地改善当地人民的生活水平。

Covering an area of over 130,000 m<sup>2</sup>, it is an important component of Venezuela's national housing program.

The design and quality of the project were commended by the President and Vice President of the Bolivarian Republic of Venezuela, and improved the livelihood of local people.



委内瑞拉总统 尼古拉斯·马杜罗 出席交房仪式

President Nicolás Maduro Moros of Venezuela attended the delivery ceremony



共建设 4500 多套房屋,总建筑面积超过 60 万平米,改变了当地居民的居住习惯,提升了当地的居住水平。

Covering an area of over 600,000m<sup>2</sup>, the project consists of more than 4,500 apartments, changes the living habit of local residents, and enhances local housing level.





位于韩国首尔,清新明快的装修风格,备受当地人喜爱。

Located in Seoul, Korea, the project is very popular among local people owing to its fresh decoration style.

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