CHAMBROAD
TIMBER

CHAMBROAD TIMBER

WINDOWS CATALOGUE

—— CONTACT US——

CHAMBROAD TIMBER

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ABOUT US

Enterprises for 18 consecutives years

Enrollment of China's Top- 500

Company Profile

Shandong Chambroad Timber Material Co,.Ltd. (referred to as "Chambroad Timber") belongs to Shandong Chambroad Holding Group Co.,Ltd, founded in 2014, is committed to the development of green recycling and low carbon economy, and produces high performance special outdoor timber and high performance wooden doors & windows through advanced biomodification technology and proprietary moulding technology.

Chambroad Timber operates two major production facilities spanning a total area of 235,000 m². Equipped with industry-leading German Weinig CNC production line, our company achieves an annual output exceeding 150,000 m² of doors and windows. As an integrated solutions provider covering R&D, design, testing, production, installation, and after-sales service, we deliver full-chain door and window systems suitable for all climate zones worldwide.

ESG

Green · Low-Carbon Sustainable

Ultra-Low U-value, Superior Insulation & Energy Efficiency

Windows U-value as low as 0.8 W/(m²·K) exceed international energy standards, ensuring effective thermal insulation in both winter and summer.

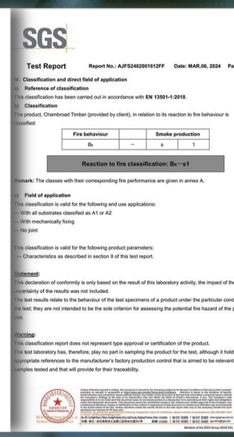
Save 2,000 kWh annually, reducing household energy costs

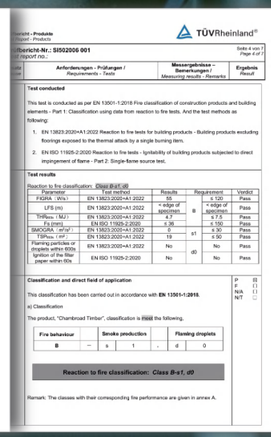
In a 150 m² home with 30 m² of glazing, Chambroad Timber Windows can save approximately 2,000 kWh annually.

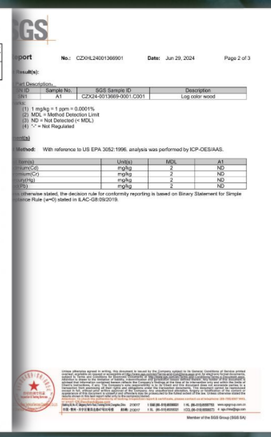
Lower Product Carbon Footprint, Building Greener Homes Worldwide

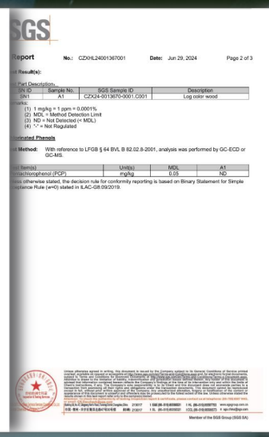
For every 10,000 m² installed, Chambroad Timber windows reduce CO emissions by up to 2,000,000 kg annually compared to aluminum windows (Cradle-to-Gate).

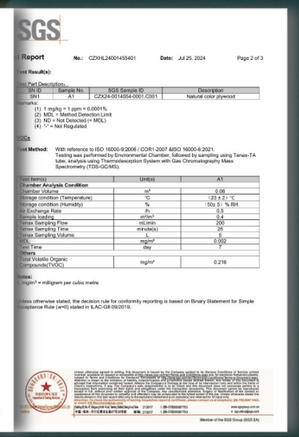
CERTIFICATION&TEST REPORT

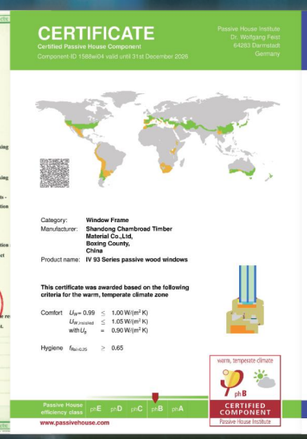


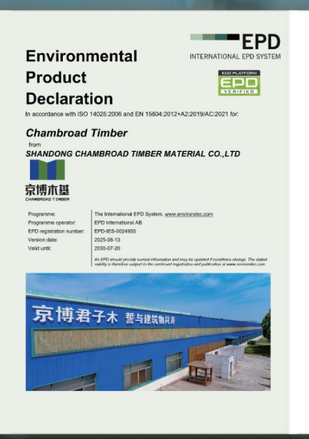












CHOOSE

Why Choose US

Team Advantages

Chambroad Timber focuses on the research and development and delivery of comprehensive solutions for ultra-high and ultra-large system wooden windows and high-performance antique system wooden windows. With 11 years of experience, it has won 68 patents.

Targeting global high-end market, Chambroad Timber serves international leaders in aluminum wood window and door manufacturing, alongside premium passive house and real estate developers across Europe, America, and Asia-Pacific region.

60% Masters/PhDs	Share of R&D team members possessing advanced (Master's/PhD) degrees.
15+ QC	Provincial-Level Major Sci-Tech Innovation Initiative
200+ Skilled Worker	Core Skilled Technicians on the Production Frontline
20+ Application Engineer	Domain-Specific Application Engineer for the High-End Door & Window Market

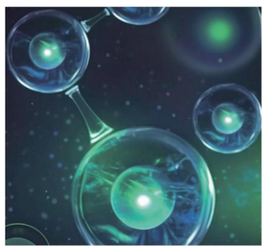
Factory

2 Facilities	**235000** m² Area	**150000+** m²/year Production Capacity	**1000+** Project Application

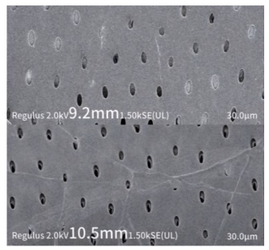
Chambroad Timber's 235,000 m² production facility is dedicated to high-performance energy-efficient doors and windows. Integrating the world-leading German Weinig UC-Matic line-which maintains machining tolerances within ±0.05 mm-together with imported P500 four-sided planers and CNC centers, we deliver exceptional precision and efficiency. Our flexible, open-layout production system further ensures agile manufacturing and shorter lead times.

Core Technical

Biomass Modification Material Technology

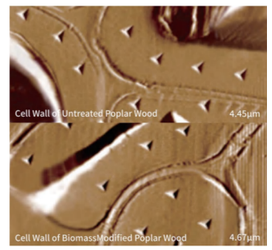


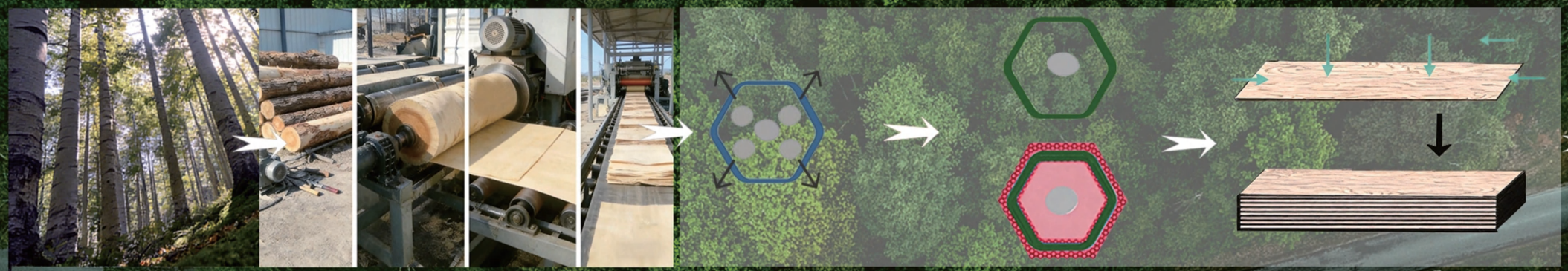
Cell Wall Pit Aperture Enlargement Technology



Modifier Activity Control Technology

Biomass Cell Wall Reinforcement Technology





Raw material

Fast growing wood

Rotary-cut

By rotary-cutting, the radial mechanical distribution is broken, hence removing the cause of radial shrinkage, and reducing the tendency to warp.

Denutrient

Reducing the nutrientsinside the materialthrough water boiling,improving the materi-al's ability to preventmold and corrosion.

Biomass Modification

Grafting tech: Grafting technology is used to replace the hydrophilic groups of the internal structural molecules of timber (cellulose, hemicellulose,and lignin) to reduce the hydrophilicity of the material.
Filling tech: Filling technology is used to protect wood cells from the inside out,there by improving the stability of the material and further improving the anti-mold and anti-fungal properties.

Hot-press

By high-temperature hot pressing, the material density is increased, and the hardness,mechanical properties, and durability of the material are improved.

Chambroad Timber

CORE

Chambroad Timber

Water is the source of life for sure, but it is also the source of issues like deformation, cracking, moulding etc.Removing waterfrom the wood is the key word of wood modification, while free water in the cell cavity can beeasily removed,the bonding water with cell walleft researchers a big headache. Chambroad Timber adopts acombined methodology of physical barrier and bio-chemical reaction to give wood cells the ultimate protec-tion against corrosion from humidity, mould, termite etc.

Items	Test Standard	Units	Chambroad Timber	Pine	Oak	Merbau	Teak
Termite Resistance	EN 117 / EN 350	Class	DC D	DC S	DC M	DC M	DC M
Fungi Resirance	EN 113-2 / EN 350	Class	DC 1	DC 4-5	DC 3-4	DC 1-2	DC 1-2
Mold Resistance	DIN EN ISO 846	Class	0	4	2	1	1
Fire resistance	EN 13501-1	Class	B-s1,d0	D-s2,d2	D-S2,d2	D-S2,d2	D-S2,d2
Modulus of Elasticity	EN 408	N/mm2	20120	9150	12680	13820	12560
Water Absorption Swelling Rate (Width)	/	%	up to 1.2	4.8	5.07	3.2	2.8
Formaldehyde Emission	EN 717	/	E0	E1	E1	E1	E1
Density	/	Kg/m³	930-1000	460-600	610-750	800-940	310-600

90-Minutes Fire Integrity

- **90-Minutes Superior Fire Integrity**

Chambroad Timber Wood Windows maintain structural stability with no critical failure during fire scenarios, setting a new industry safety benchmark.

- **Traditional Aluminum Windows Lose Load-Bearing Capacity at 800°C**

Exposed to 800°C heat, traditional aluminum melts and deforms, causing immediate frame failure and presenting a significant threat to occupant safety.

30-Minute Fire-Resistance
Comparison Test

Window Details

GLASS | Ultimate Energy Efficiency

With Low-E glass blocking 97% of infrared heat and argon-filled cavities, our insulating glass units minimize thermal convection, delivering superior insulation, UV resistance, and energy performance.

SEALS | Silent & Secure

Aviation-grade EPDM gaskets combined with anti-slip glass retention technology work in unison to eliminate drafts, ensuring outstanding acoustic insulation, airtightness, and thermal retention.

HARDWARE | Confident Security

Engineered with ROTO, GU, and HOPPE, our 12-point multi-lock ensures maximum security and sealing. Experience the confident feedback of a 30° rotation and a clear 4000Hz confirmatory tone.

PROFILES | Storm-Resistant Durability

Engineered with seamless weld-integrated 6063-T6 aluminum profiles and multi-chamber suspension clips, our window system integrates triple sealing and hidden drainage to deliver exceptional storm resistance and superior airtight performance.

Teknos

Integrated Coating Solutions:
Safe, Durable, Reliable

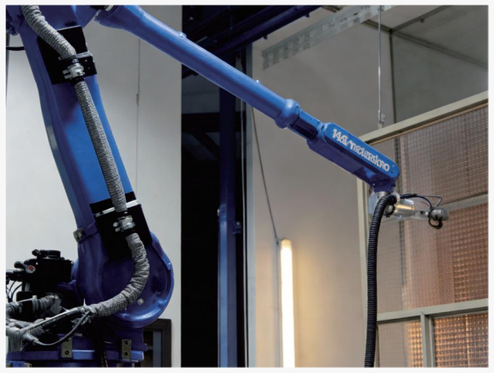
Unlock a New Era of Window Color

Featuring the professional Teknos water-borne coating system, our wood windows and doors meet stringent European eco-standards while offering curated aesthetics. Choose from 8 standard colors or go fully custom.

Guided by an expert technical team from concept to completion, we deliver tailored solutions that blend security, sustainability, and style-crafting homes that are both beautiful and responsible.

Rigorous Standards. Lasting Quality.

The durability and beauty of premium windows are defined by their coating. That's why we subjected multiple coating systems to extreme tests—weather resistance, adhesion, hardness, abrasion, and UV aging—and validated them through real-world outdoor exposure. Only the top-performing solution earns its place on our windows.



3D Robotic Spraying: Precise & Efficient

Utilizing German-engineered robotic systems, we deliver flawless, uniform finishes with exceptional color consistency. Coupled with rapid-drying technology, this ensures high-efficiency production and reliable project timelines.

The result is a superior coating that offers outstanding weather resistance, UV protection, water repellency, mold resistance, and easy maintenance—striking the perfect balance between durable performance and aesthetic appeal.

FIRST CLASS SOPHISTICATED EQUIPMENT FROM EUROPE

Precision by Process

Our standardized production line maintains dimensional tolerances within ±0.05mm across every stage, ensuring each window and door delivers uncompromising accuracy, seamless fit, and lasting structural integrity.

Ultra-High-Speed Tooling

Milling and tenoning cutters operating at 12,000 RPM, we achieve rapid, precise, and clean profile machining for consistently superior window and door fabrication.

High-Precision Four-Sided

Powered by CNC-controlled Weinig machining centers, our system operates at 8,000 RPM to deliver exceptional surface finish, dimensional accuracy, and production efficiency—surpassing conventional equipment in both precision and speed.

02

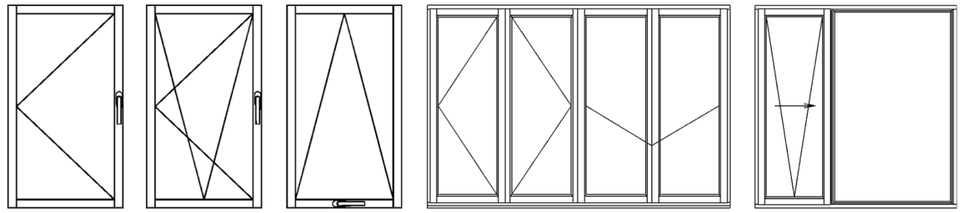
ULTRA-SLIM
WOOD WINDOW

CJ68 ULTRA-SLIM WOOD WINDOW

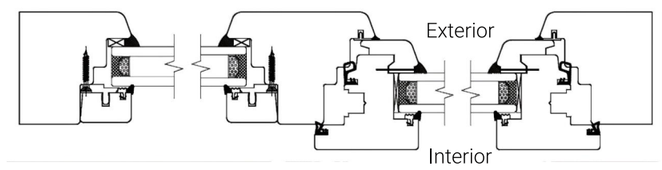
Doors and windows are crafted as architectural artworks within the facade-where every detail, from material and form to profile and finish, is designed for seamless visual integration with the structure.

Items	Description
Wood	Chambroad Timber
Hardware & Handle	ROTO / GU / HOPPE
U-Value	1.6 W/(m²·K)
Glazing	24 mm 5low-e+14Ar+5
Water-based Paints	Teknos
Profile Thickness	68 mm
Visible Width Sash (inside)	63 mm
Visible Width Frame (inside)	37 mm
Limit Size （Opening Sash ）	350＜W＜800 mm 350＜H＜1600 mm

Versatile Opening Options



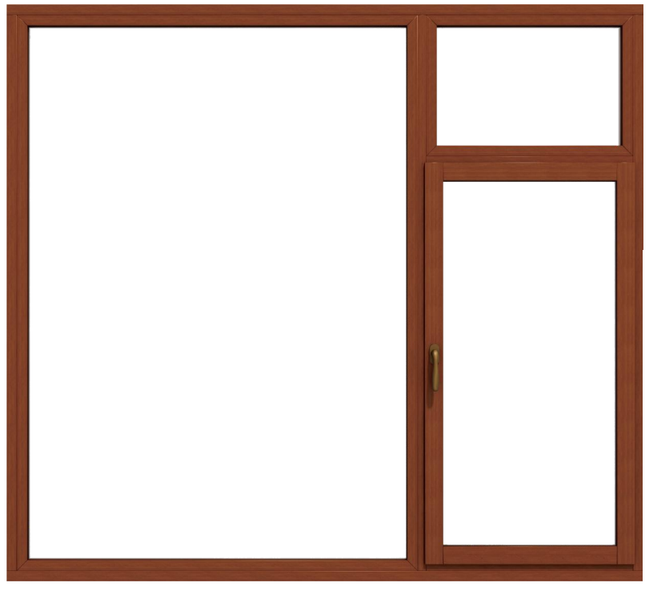
Detail Drawings



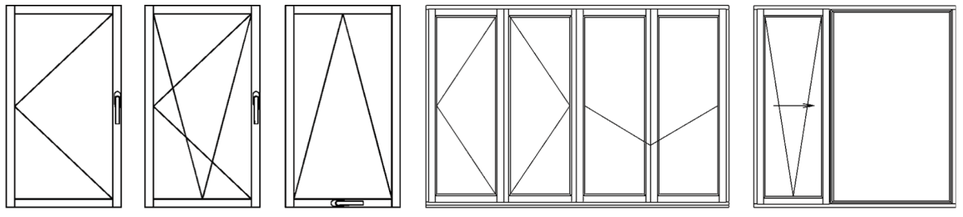
CJ78 ULTRA-SLIM WOOD WINDOW

Chambroad Timber creates precision-crafted, climate-adaptive solutions that meet the exacting standards of high-end architectural design across diverse regions.

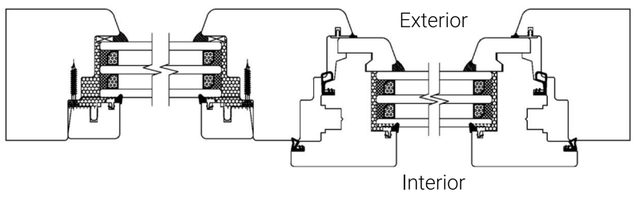
Items	Description
Wood	Chambroad Timber
Hardware & Handle	ROTO / GU / HOPPE
U-Value	1.3 W/(m²·K)
Glazing	33 mm 5low-e+9Ar+5+9Ar+5
Water-based Paints	Teknos
Profile Thickness	78mm
Visible Width Sash (inside)	63mm
Visible Width Frame (inside)	37mm
Limit Size (Opening Sash)	350＜W＜800mm 350＜H＜1600mm



Versatile Opening Options



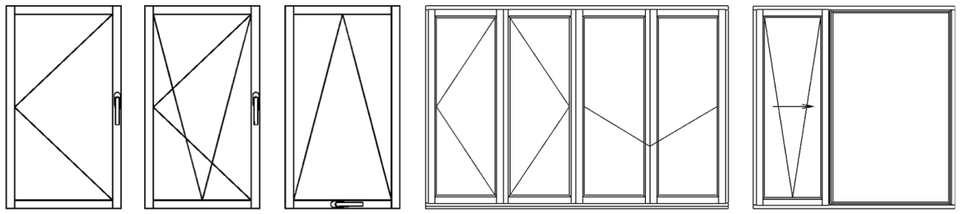
Detail Drawings



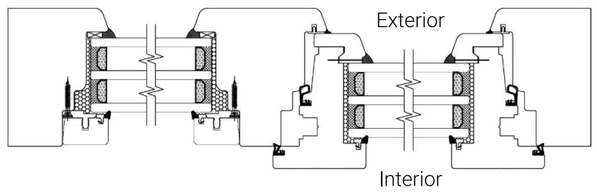
CJ93 ULTRA-SLIM WOOD WINDOW

Items	Description
Wood	Chambroad Timber
Hardware & Handle	ROTO / GU / HOPPE
SHGC	0.23
U-Value	1.0 W/(m²·K)
Glazing	50 mm 6Low-E+16Ar+6Low-E+16Ar+6C
Water-based Paints	Teknos
Profile Thickness	93 mm
Visible Width Sash (inside)	63 mm
Visible Width Frame (inside)	37 mm
Limit Size （Opening Sash ）	350＜W＜800 mm 350＜H＜1600 mm

Versatile Opening Options



Detail Drawings



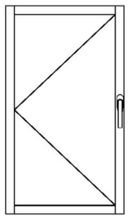
03

ULTRA-SLIM ALUMINUM-WOOD WINDOW

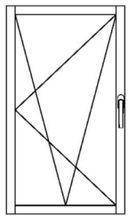
CB86 ULTRA-SLIM ALUMINUM-WOOD WINDOW

Items	Description
Interior Wood	Chambroad Timber
External Aluminum Cladding	6063-T6 Aluminum Profile
Hardware & Handle	ROTO / GU / HOPPE
U-Value	1.2 W/(m²·K)
Glazing	33 mm 5low-e+9Ar+5+9Ar+5
Water-based Paints	Teknos
Profile Thickness	68+18 mm
Visible Width Sash (inside)	81 mm
Visible Width Frame (inside)	48 mm
Limit Size （Opening Sash ）	350＜W＜800 mm 350＜H＜1600 mm

Versatile Opening Options

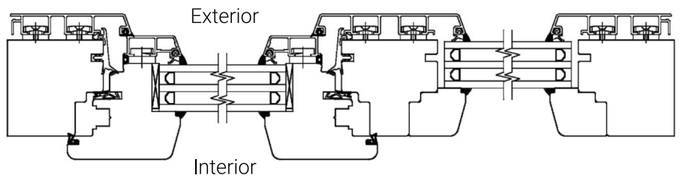


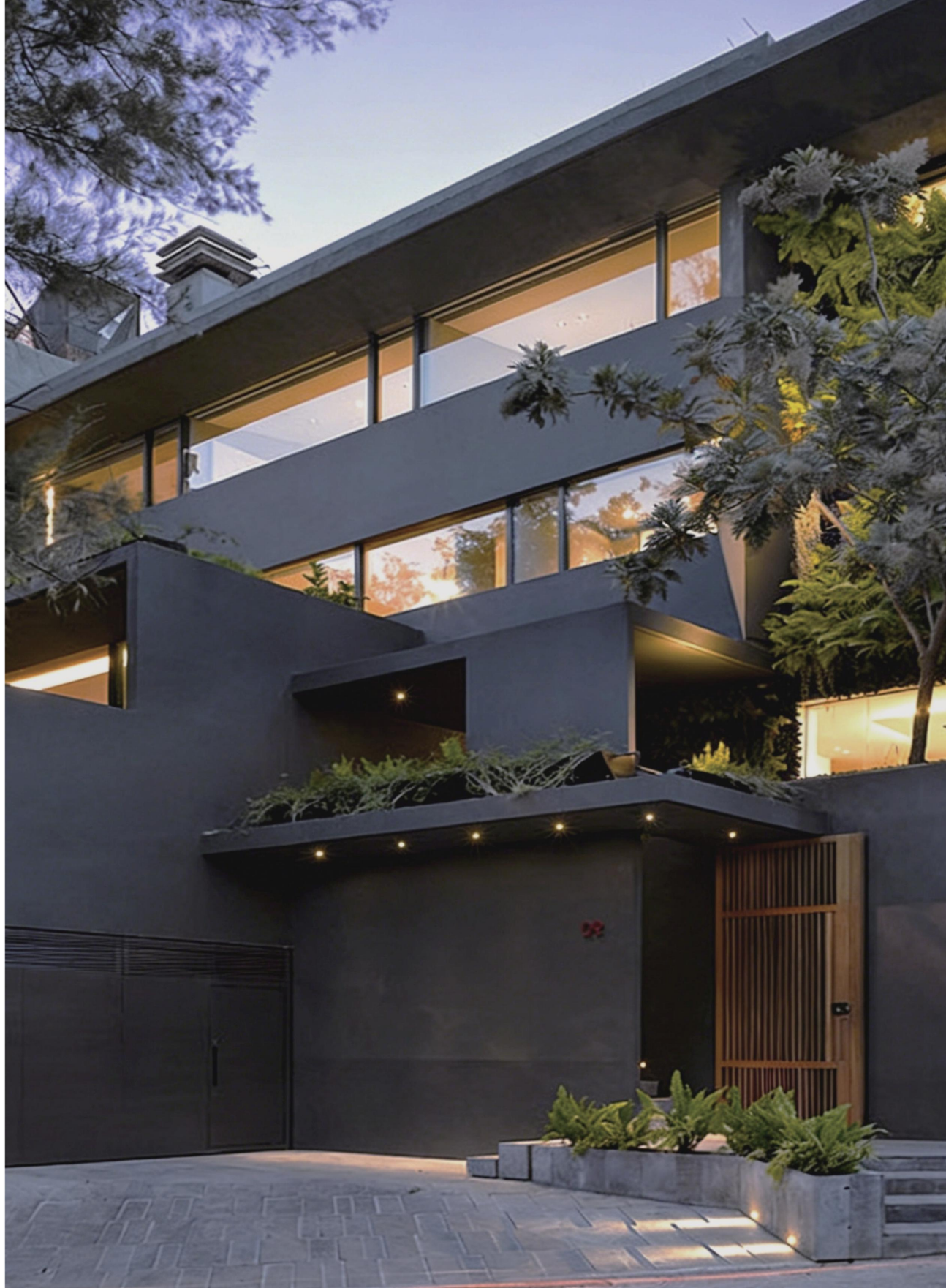
Side-Hung



Tilt & Turn

Detail Drawings



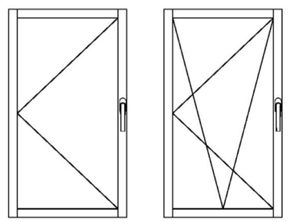


CB96 ULTRA-SLIM ALUMINUM-WOOD WINDOW

Items	Description
Interior Wood	Chambroad Timber
External Aluminum Cladding	6063-T6 Aluminum Profile
Hardware & Handle	ROTO / GU / HOPPE
U-Value	0.99 W/(m²·K)
Glazing	47 mm 5low-e+16Ar+5+16Ar+5
Water-based Paints	Teknos
Profile Thickness	78+18 mm
Visible Width Sash (inside)	65 mm
Visible Width Frame (inside)	39.5 mm
Limit Size （Opening Sash ）	350＜W＜800 mm 350＜H＜1600 mm

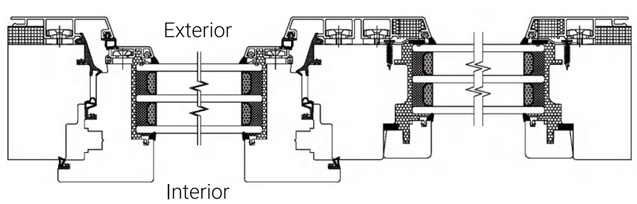
A window that defines style, conceals strength, and elevates living-crafted in wood and aluminum for passive houses, premium residences, and commercial spaces.

Versatile Opening Options



Side-Hung　　Tilt & Turn

Detail Drawings

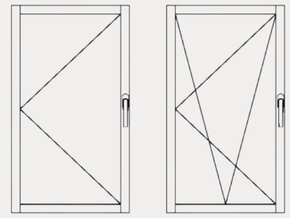


CB120 ULTRA-SLIM ALUMINUM-WOOD WINDOW

Minimalist Luxury, Dual-Layer Protection. Crafted by Chambroad Timber, our energy-efficient aluminum wood windows integrate seamlessly into global architecture—from passive houses to premium residences and public spaces. Every window is designed to realize your vision of an elevated home, balancing quiet strength with refined living.

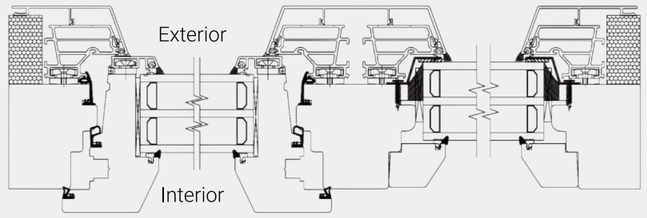
Items	Description
Interior Wood	Chambroad Timber
External Aluminum Cladding	6063-T6 Aluminum Profile
Hardware & Handle	ROTO / GU / HOPPE
U-Value	0.8 W/(m²·K)
Glazing	47 mm 5low-e+16Ar+5+16Ar+5
Water-based Paints	Teknos
Profile Thickness	68+52 mm
Visible Width Sash (inside)	63 mm
Visible Width Frame (inside)	40.5 mm
Limit Size （Opening Sash ）	350＜W＜800 mm 350＜H＜1600 mm

Versatile Opening Options



Side-Hung　　Tilt & Turn

Detail Drawings



04

PROJECT APPLICATION

Founder Heyue Apartment Project

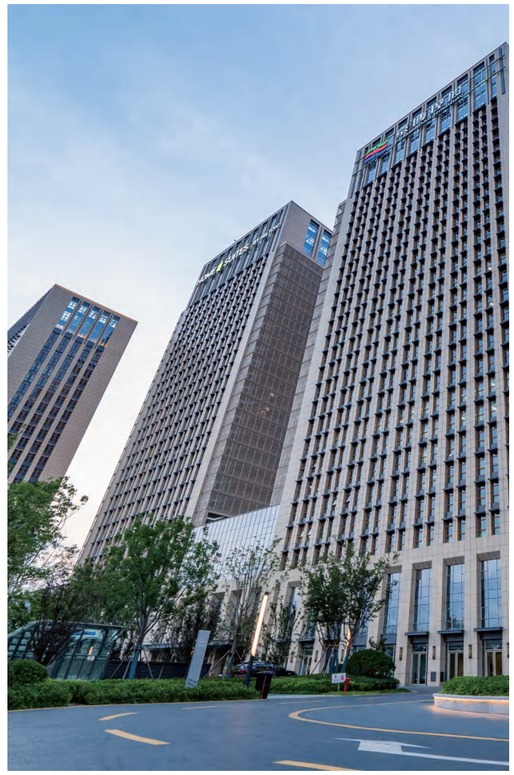
Location: Zibo, Shandong Province, China

Date: June 2022

Fei Wang
Residential Building Project

Location: Binzhou, Shandong Province,China

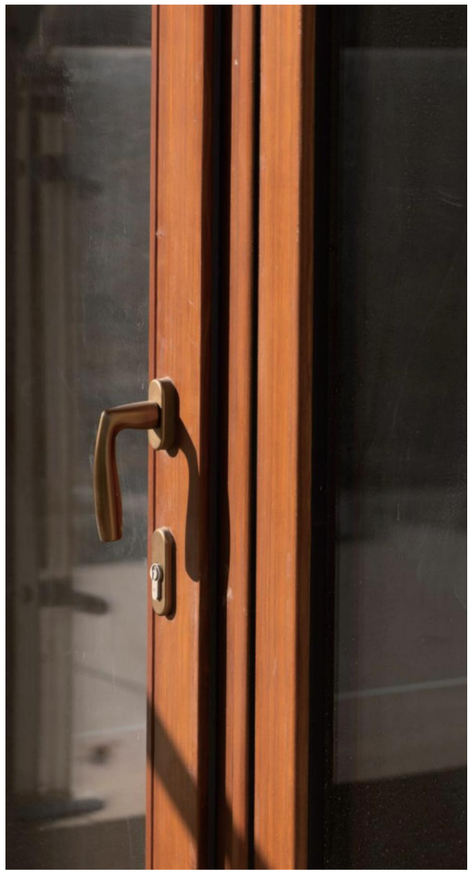
Date: June 2020

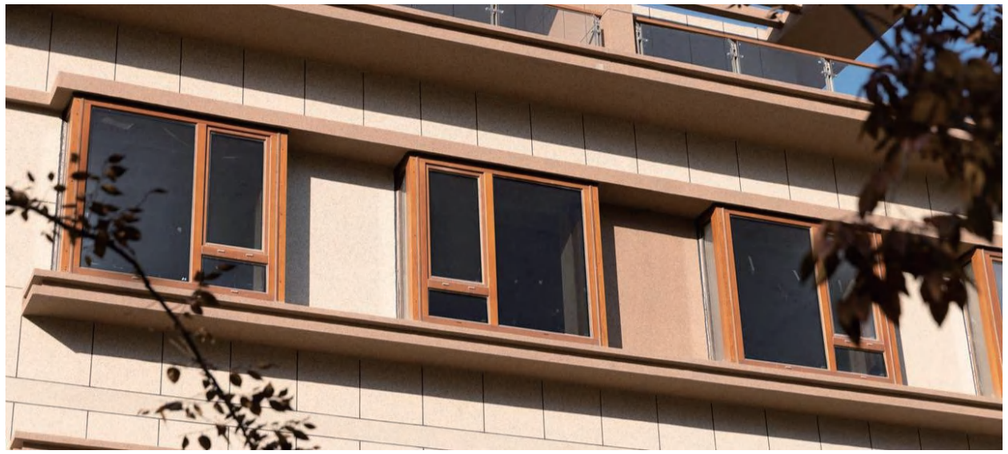


Zhitai Square Chambroad Headquarters Office Tower Project

Location: Binzhou, Shandong Province,China

Date: June 2022





No. 9
Residential Building Project

Location: Binzhou, Shandong Province,China

Date: June 2022

Green Carbon Post
Beijing Forestry University
Community Center Project

Location: Beijing, China

Date: June 2024

Kaihua
Resort Hotel Project

Location: Quzhou, Zhejiang Province,China

Date: July 2023

Zhuxiaohui Zero-carbon Village Art Gallery Project

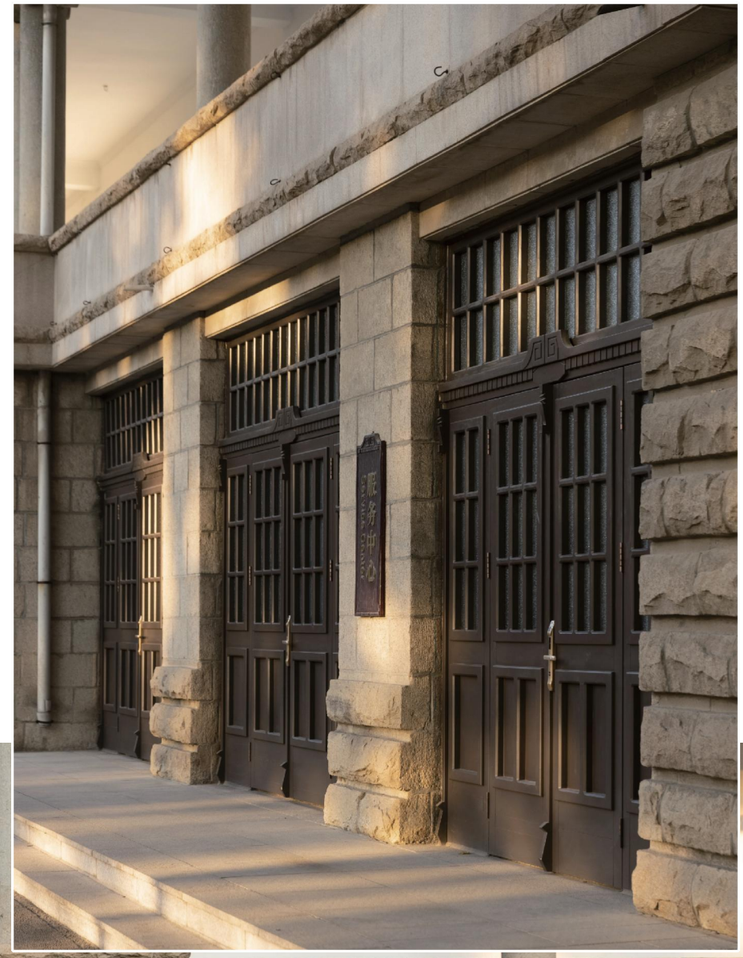
Location: Jiaxing, Zhejiang Province, China

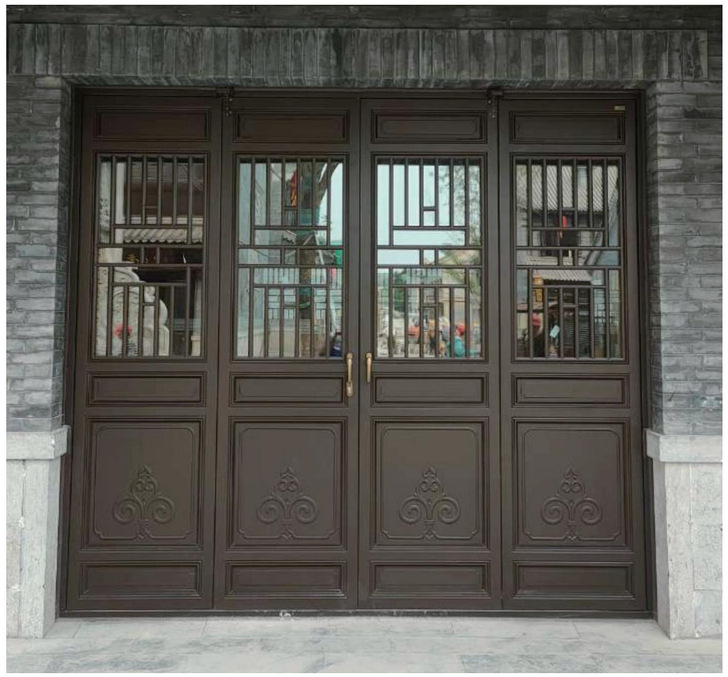
Date: June 2022

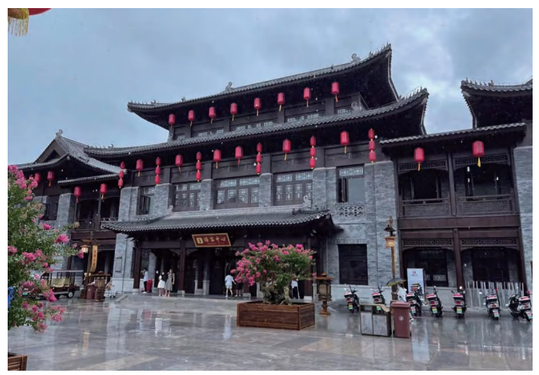
Jiaoji Railway Museum Project

Location: Jinan, Shandong Province, China

Date: August 2022







Ju Guo Cultural Street Ancient Project

Location: Rizhao, Shandong Province,China

Date: March 2022

Bodu Xinxiang Cultural Street Ancient Project

Location: Zhengzhou, Henan Province, China

Date: November 2024

Chinese Courtyard House-Siheyuan Private Residential Project

Location: Langfang, Hebei Province, China

Date: September 2025