

CHAMBROAD TIMBER

Outdoor Application

Decking | Cladding | Soffit | Lumber | Beam

CHAMBROAD

TIMBER

EPD

INTERNATIONAL EPD SYSTEM

Contact Us

Add: Chambroad industrial park,Economic development zone,No 009,Boxing county,Binzhou city,Shandong province,China
Tel: +86 0543 2872908
Email: info.timber@chambroad.com
Web: https://en.chambroadtimber.com

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As of Dec 31th ,2025 , the cumulative carbon sequestration through application of Chambroad Timber products has reached.

375,100,000KG



ABOUT US

Shandong Chambroad Timber Material Co., Ltd.

Chambroad Holding for 18 years

China's Top **500** Enterprises

316th
Asian Brand Top-500

254th
China's Enterprises Top-500

15.51billion
Revenue 2025

50+
Serving Regions

Company Profile

Shandong Chambroad Timber Material Co., Ltd. (referred to as "Chambroad Timber") belongs to Shandong Chambroad Holding Group Co., Ltd., founded in 2014 and committed to the development of a green, sustainable, and low-carbon economy. Chambroad Timber produces high-performance timber products through bio-modification technology and molding processes, including outdoor panels, doors and windows, sports profiles, and industrial laminated wood.

Two production bases spanning 235,000 m², equipped with world-advanced outdoor panel lines - annual capacity over 2 million m².We have grown into a trusted, full-chain partner for outdoor panel solutions - covering everything from R&D and design to testing, production, installation, and after-sales care.

Sustainable Manufacturing

Chambroad Timber's fully automated production system reflects its green and intelligent manufacturing commitment.
Key features include:
-Core process precision - ±0.2 mm.
-High-efficiency processing - P500 four-sided planer & smart coating line, shorter cycles.
We deliver reliable, high-performance products with precision, speed, and quality.

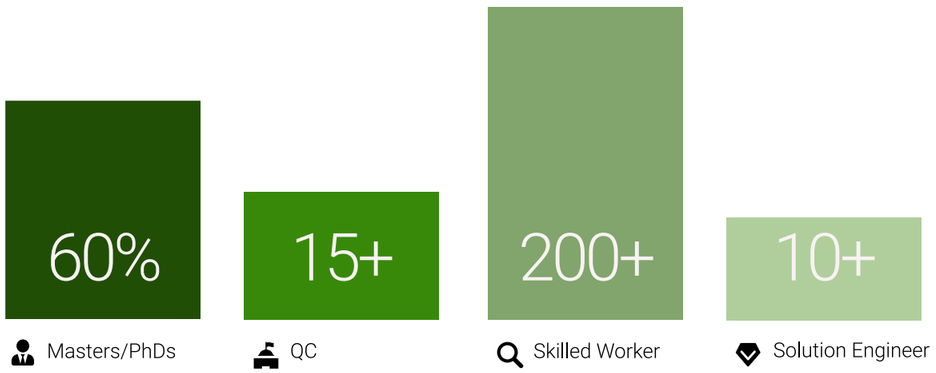
Team

With 12 years of dedicated R&D and 68 patents, Chambroad Timber specializes in fullchain solutions for marine-proof, fire-proof, and other outdoor products.

Products & Projects

We work with
-Architectural Practices
-Real Estate Developers
-Buliders
-Distributors

Our Projects
-Hotels & tourism
-Public spaces
-High-end residential
-and more



CERTIFICATION & TEST REPORT

Quality Management System Certificate

Certificate No.: 05323Q31090R0M

we hereby certify that

Shandong Chambroad Timber Material Co.,Ltd.

Registered/Production/Business/Office Address: Chambroad industrial park, Economic development zone, No 009 , Boxing county, binzhou city, Shandong province,China

Quality Management System complies with Standard requirement

GB/T 19001-2016/ISO 9001:2015

The certificate is valid for the following scope:

New wood-based materials and products sales, modified reconstituted wood energy-saving wood windows and doors production.

Certificate Date: 20-06-2023
Certificate Valid Date: 20-06-2023~19-06-2026
Date of initial Certification: 20-06-2023
Unified Social Credit Code of the Certified Organization: 91371600493763603 4

The validity of this certificate is maintained through regular supervision;
The status of the certificate can be inquired by scanning the QR code,
or it can be found on the official website of the Certification and Accreditation Administration of the P.R.C(www.cnca.gov.cn).

Beijing NGV Certification Center Co.,Ltd.
Address: Unit 1101,Unit 2,10#,Block 2,No. 82,East 4th Ring Middle Road,Chaoyang District,Beijing
Tel: 010-87531388 FC:100124 Website: http://www.ngv.org.cn

Environmental Management System Certificate

Certificate No.: 05324E3032 0R1M

we hereby certify that

Shandong Chambroad Timber Material Co., Ltd.

Registered/Production/Business/Office Address: Chambroad Industrial Park, Economic Development Zone No. 009, Boxing County, Binzhou City, Shandong Province,China

Environmental Management System complies with Standard requirement

GB/T 24001-2016/ISO 14001:2015

The certificate is valid for the following scope:

Environmental management activities related to the sales of new wooden materials and products, and the production of modified reconstituted wood energy-efficient doors and windows

Certificate Date: 02-07-2024
Certificate Valid Date: 02-07-2024~01-07-2027
Date of initial Certification: 14-10-2021
Unified Social Credit Code of the Certified Organization: 91371600493763603 4

The validity of this certificate is maintained through regular supervision;
The status of the certificate can be inquired by scanning the QR code,
or it can be found on the official website of the Certification and Accreditation Administration of the P.R.C(www.cnca.gov.cn).

Beijing NGV Certification Center Co.,Ltd.
Add:Unit 1101,Unit 2,10#,Block 2,No. 82,East 4th Ring Middle Road,Chaoyang District,Beijing
Tel: 010-87531388 FC:100124 Website: http://www.ngv.org.cn

Occupational Health and Safety Management System Certificate

Certificate No.: 05323S30163R1M

we hereby certify that

Shandong Chambroad Timber Material Co.,Ltd.

Registered/Production/Business/Office Address: Chambroad industrial park, Economic development zone, No 009 , Boxing county, binzhou city, Shandong province,China

Occupational Health and Safety Management System complies with Standard requirement

GB/T 45001-2020 ISO 45001:2018

The certificate is valid for the following scope:

New wood-based materials and products sales,Modified reconstituted wood energy-saving wood doors and windows production-related occupational health and safety management activities

Certificate Date: 20-06-2023
Certificate Valid Date: 20-06-2023~19-06-2026
Date of initial Certification: 20-10-2020
Unified Social Credit Code of the Certified Organization: 91371600493763603 4

The validity of this certificate is maintained through regular supervision;
The status of the certificate can be inquired by scanning the QR code,
or it can be found on the official website of the Certification and Accreditation Administration of the P.R.C(www.cnca.gov.cn).

Beijing NGV Certification Center Co.,Ltd.
Address: Unit 1101,Unit 2,10#,Block 2,No. 82,East 4th Ring Middle Road,Chaoyang District,Beijing
Tel: 010-87531388 FC:100124 Website: http://www.ngv.org.cn

TEST CERTIFICATE

BT-25-01-14-01

Product: Chambroad Timber (Biomass Modified Recombinant Poplar)

Supplier: Shandong Chambroad Timber Material Co., Ltd. Economic Development Zone, Boxing County, Binzhou City, Shandong Province, China

Order: Durability against wood-destroying basidiomycete fungi according to EN 113-3/EN 350

Test report: 2224031-2 dated 14 January 2025

Test details: After accelerated water leaching acc. to EN 84 each 16 test specimen replicates were tested with the fungi *Coniophora puteana, Rhodonia (Poria) placenta, Gloeophyllum trabeum, Pleurotus ostreatus* and *Trametes (Coriolus) versicolor.*

Test results: The durability of the test material "Chambroad Timber (Biomass Modified Recombinant Poplar)" against wood-destroying basidiomycete is assigned to: **Durability class 1 "very durable".**

The underlying classification comprises five levels from class DC 1 "very durable" to class DC 5 "not durable".

Place, date of issue: Dresden, 14 January 2025

Head of laboratory — Engineer in charge

TEST CERTIFICATE

BT-24-09-24-01

Product: Chambroad Timber (Biomass Modified Recombinant Poplar)

Supplier: Shandong Chambroad Timber Material Co., Ltd. Economic Development Zone, Boxing County, Binzhou City, Shandong Province, China

Order: Mold resistance according to DIN EN ISO 846:2020, method A

Test report: 2224031-1/A1 dated 24 September 2024

Test details: Five test specimen replicates were tested with a mixed spore suspension of *Aspergillus niger, Talaromyces pinophilus, Paecilomyces variotii, Trichoderma viride* and *Chaetomium globosum* without the addition of nutrients over an incubation period of 4 weeks. No artificial ageing or weathering was carried out before the fungal test.

Test results: The non-weathered material was resistant to mold (class "0") and did not provide a nutrient source for mold fungi.

Place, date of issue: Dresden, 24 September 2024

Head of laboratory — Engineer in charge

TEST CERTIFICATE

BT-25-05-28-01

Product: Chambroad Timber (Biomass Modified Recombinant Poplar)

Supplier: Shandong Chambroad Timber Material Co., Ltd. Economic Development Zone, Boxing County, Binzhou City, Shandong Province, China

Order: Termite resistance according to EN 117, EN 84 and EN 350

Test report: 2224066 dated 28 May 2025

Test details: After accelerated water leaching acc. to EN 84 by EPH, five replicates were tested with *Reticulitermes flavipes* by the accredited subcontractor BAM Berlin (Bundesanstalt für Materialforschung und -prüfung).

Test results: The product "Chambroad Timber (Biomass Modified Recombinant Poplar)" is assigned as durable against the attack of termites (durability class D).

Place, date of issue: Dresden, 28 May 2025

Head of laboratory — Engineer in charge

SGS

Test Report Report No.: AJFS2402001

IV. Classification and direct field of application

a) Reference of classification

This classification has been carried out in accordance with EI

b) Classification

The product, Chambroad Timber (provided by client), in relati classified:

Fire behaviour	
Bs	--

Reaction to fire classifi

Remark: The classes with their corresponding fire performan

c) Field of application

This classification is valid for the following end use applicatio
--- With all substrates classified as A1 or A2
--- With mechanically fixing
--- No joint

This classification is valid for the following product parameter
--- Characteristics as described in section II of this test repo

Statement:

This declaration of conformity is only based on the result of t uncertainty of the results was not included.
The test results relate to the behaviour of the test specimens the test; they are not intended to be the sole criterion for ass use.

Warning:

This classification report does not represent type approval or The test laboratory has, therefore, play no part in sampling th appropriate references to the manufacturer's factory producti samples tested and that will provide for their traceability.

SGS

Test Report No.: CZXHL2400136690 Date:

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample I
SN1	A1	CZX24-001366

Remarks:
(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

Element(s)

Test Method: With reference to US EPA 3052:1996,

Test Item(s)	Unit
Cadmium(Cd)	mg/k
Chromium(Cr)	mg/k
Mercury(Hg)	mg/k
Lead(Pb)	mg/k

Unless otherwise stated, the decision rule for conformity Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

SGS

Test Report No.: CZXHL2400136700 1 Date:

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID
SN1	A1	CZX24-001367

Remarks:
(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

Chlorinated Phenols

Test Method: With reference to LFGB § 64 BVL B 82.02.8-2001, anal GC-MS.

Test Item(s)	Unit(s)
Pentachlorophenol (PCP)	mg/kg

Unless otherwise stated, the decision rule for conformity reporting is base Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

SGS

Test Report No.: CZXHL2400145540 1 Date: Jul 25, 2024 Page 2 of 3

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CZX24-001455	Natural color plywood

Remarks:
(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

VOCs

Test Method: With reference to ISO 16000-9:2006 / COR1-2007 &ISO 16000-6:2021. Testing was performed by Environmental Chamber, followed by sampling using Tenax-TA tube, analysis using Thermodesorption System with Gas Chromatography Mass Spectrometry (TDS-GC/MS).

Test Item(s)	Unit(s)	A1
Chamber Analysis Condition		
Chamber Volume	m^3	0.06
Storage condition (Temperature)	°C	(23 ± 2) °C
Storage condition (Humidity)	%	(50± 5) % RH
Air Exchange Rate	/h	0.5
Sample loading	m^2/m^3	0.4
Tenax Sampling Flow	mL/min	200
Tenax Sampling Time	min/sec(s)	25
Tenax Sampling Volume	L	5
MDL	mg/m³	0.002
Test Time	day	7
Others		
Total Volatile Organic Compounds(TVOC)	mg/m³	0.216

Notes:
1. m^3 = milligram per cubic metre

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

TÜVRheinland®

Prüfbericht - Produkte / *Test Report - Products*

Prüfbericht-Nr.: SI502006 001 / *Test report no.:* — Seite 4 von 7 / *Page 4 of 7*

Absatz / Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis / Result

1 Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2020 Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single-flame source test.

2 Test results

Reaction to fire classification: *Class B-s1, d0*

Parameter	Test method	Results	Requirement		Verdict
FIGRA（W/s）	EN 13823:2020+A1:2022	55	B	≤ 120	Pass
LFS (m)	EN 13823:2020+A1:2022	< edge of specimen		< edge of specimen	Pass
THR_{600s}（MJ）	EN 13823:2020+A1:2022	4.7		≤ 7.5	Pass
Fs (mm)	EN ISO 11925-2:2020	≤ 36		≤ 150	Pass
SMOGRA（m^2/s^2）	EN 13823:2020+A1:2022	0	s1	≤ 30	Pass
TSP_{600s}（m^2）	EN 13823:2020+A1:2022	19		≤ 50	Pass
Flaming particles or droplets within 600s	EN 13823:2020+A1:2022	No	d0	No	Pass
Ignition of the filter paper within 60s	EN ISO 11925-2:2020	No		No	Pass

3 Classification and direct field of application

P ☒ F ☐ N/A ☐ N/T ☐

This classification has been carried out in accordance with **EN 13501-1:2018**.

a) Classification

The product, "Chambroad Timber", classification is meet the following,

Fire behaviour		Smoke production			Flaming droplets	
B	–	s	1	,	d	0

Reaction to fire classification: *Class B-s1, d0*

Remark: The classes with their corresponding fire performance are given in annex A.

SGS

Test Report (SVHC) No.: SHAHL24016846302 Date: Aug 06, 2024 Page 1 of 15

Client Name: SHANDONG CHAMBROAD TIMBER MATERIAL CO., LTD
Client Address: ECONOMIC DEVELOPMENT ZONE, BOXING COUNTY, BINZHOU CITY, SHANDONG PROVINCE, CHINA

Sample Description: CHAMBROAD TIMBER
The above sample(s) and information were provided by the client.

SGS No.: SHHL2407040835HI
Sample Receiving Date: Jul 25, 2024
Testing Period: Jul 25, 2024 ~ Aug 01, 2024
Test Requested: As requested by client, SVHC screening is performed according to:
(i) Two hundred and forty one (241) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2024 regarding Regulation (EC) No 1907/2006 concerning the REACH.
As requested by client, SVHC screening is performed according to:
(i) Two (2) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
(ii) Eleven (11) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.
Testing Performed: Follow selected test(s) as requested by client.

Summary:

According to the specified scope and evaluation screening, the test results of 241 SVHC in the Candidate List are ≤ 0.1% (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the test results of 13 Potential SVHC are ≤ 0.1% (w/w) in the submitted sample.	Pass

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jessica Pan
Approved Signatory

Scan to see the report
Verification: check.sgsonline.com.cn

Member of the SGS Group (SGS SA)

Environmental Product Declaration

EPD INTERNATIONAL EPD SYSTEM

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Chambroad Timber

from

SHANDONG CHAMBROAD TIMBER MATERIAL CO.,LTD

京博木业 CHAMBROAD TIMBER

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	EPD-IES-0024955
Version date:	2025-08-13
Valid until:	2030-07-20

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



SCS Global Services *does hereby certify that an independent audit has been completed and conformity to the applicable standard(s) has been confirmed for:*

Shandong Chambroad Timber Material Co., Ltd.

Economic Development Zone, Boxing County, Binzhou City, Shandong 256500, China

This single chain of custody certificate covers the production of engineered wood products, doors and door frames, windows and window frames, wall cladding, houses and building elements, trusses and roofs, outdoor furniture and gardening, household articles, works of art and ornamental & decorative objects using the transfer system.

The facility(s) are hereby Chain of Custody certified to sell products as:

FSC 100%, FSC Mix

The assessment has been conducted by SCS Global Services in accordance with the protocols of the Forest Stewardship Council® A.C. (FSC®).
FSC Standard: FSC-STD-50-001, FSC-STD-40-004

Certificate Code: SCS-COC-007304

Trademark License Code: FSC-C157720

FSC www.fsc.org FSC® A000521
The mark of responsible forestry

Valid from: 11/06/2025 (DD/MM/YYYY)
Expiry date: 10/06/2030 (DD/MM/YYYY)

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC certified or FSC Controlled Wood where applicable). Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on sales and delivery documents. The scope of this certificate is considered accurate on the date of issuance. The current validity and scope, including the full list of products, shall be verified on http://info.fsc.org. This certificate shall remain the property of SCS, and this certificate and all copies or reproductions of this certificate shall be returned to SCS immediately upon request. Where a certificate covers more than one site, the covered products and processes/activities are performed by the network of Participating Sites, and not necessarily by each of them.

SCSglobal SERVICES

Maggie Schwartz, Vice President, Natural Resources
SCS Global Services
2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

Printed: 16/06/2025



Chambroad Timber

End to End Product Line

Standardized

±0.2 mm tolerance only

Systematic

12,000 rpm high-speed tools – process multiple pieces at once..

Automatic

CNC control, anti-mold/antibacterial system, auto drying.





FAST GROWING WOOD

HAS MORE ADVANTAGES IN CARBON STORAGE

Photosynthesis – Carbon Storage

- Broadleaf plants typically have higher photosynthetic rates, allowing them to grow faster and storage more CO .
- Proper harvesting of mature fast-growing forests prevents the stored carbon from being released back.



Broadleaf



Conifer

Carbon Storage vs. Time

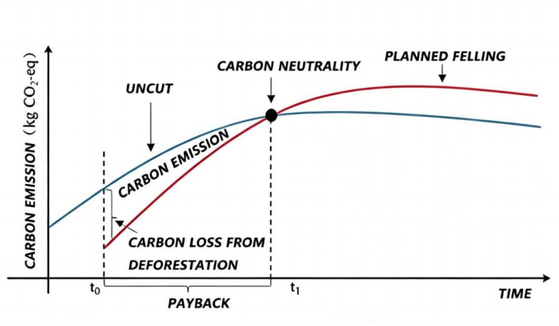
- The growth period of fast-growing forests is 8-10 years, meantime hardwood takes 100-200 years.

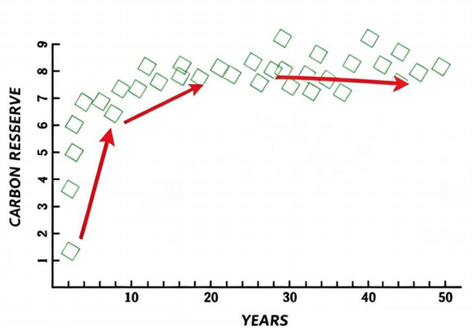


Fast-growing forests in 8-10 years



Fast-Growing Wood Carbon Storage Benefits





- Sustainable Management Through Proper Harvesting- Given the three-phase pattern of carbon storage (rapid, slow, then annual decline), an 8–10 year rotation cycle is the most suitable for sustainable forest management.
- Better Carbon Storage Efficiency - Using in construction enables long-term carbon storage. The shorter growth period of wood, the more environmentally friendly it is and better carbon fixation effect.
- Longer Final Product Carbon Fixation - The life of wood products determines the carbon storage time. Through technological innovation, the service life of wood products can be extended, the carbon fixation time can be increased, which will help to fix carbon and reduce emissions.
- Carbon Storage Calculation- A 223 m² wooden villa stores 24 tonnes of CO - equivalent to the annual emissions from 115 cars.

CORETECHNOLOGY

Water gives life, but it also causes wood to deform, crack, and mold. The key to wood modification? Remove water. Free water in cell cavities is easy; bound water in cell walls is the real challenge. Chambroad Timber combines a physical barrier with bio-chemical reaction to protect wood cells from moisture, mold, termites etc.



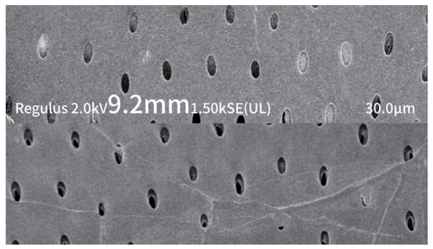
Four key technological directions

Biomass Modiciation Material Technology



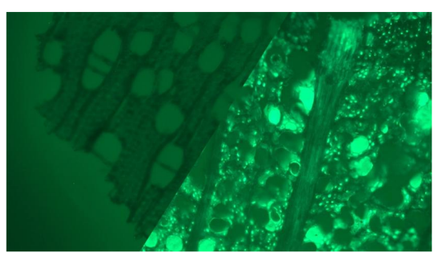
Modifiers create a triple-layer structure:
•millimeter-scale coating
•micron-scale vessel/cell lumen adhesion
•nano-scale cell wall infiltration

Cell Wall Pit Aperture Enlargement Technology



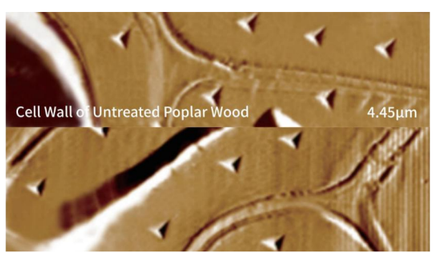
With veneer pretreatment and biomass modification prcess, wood porosity is increased by 40%.

Modifier Activity Control Technology



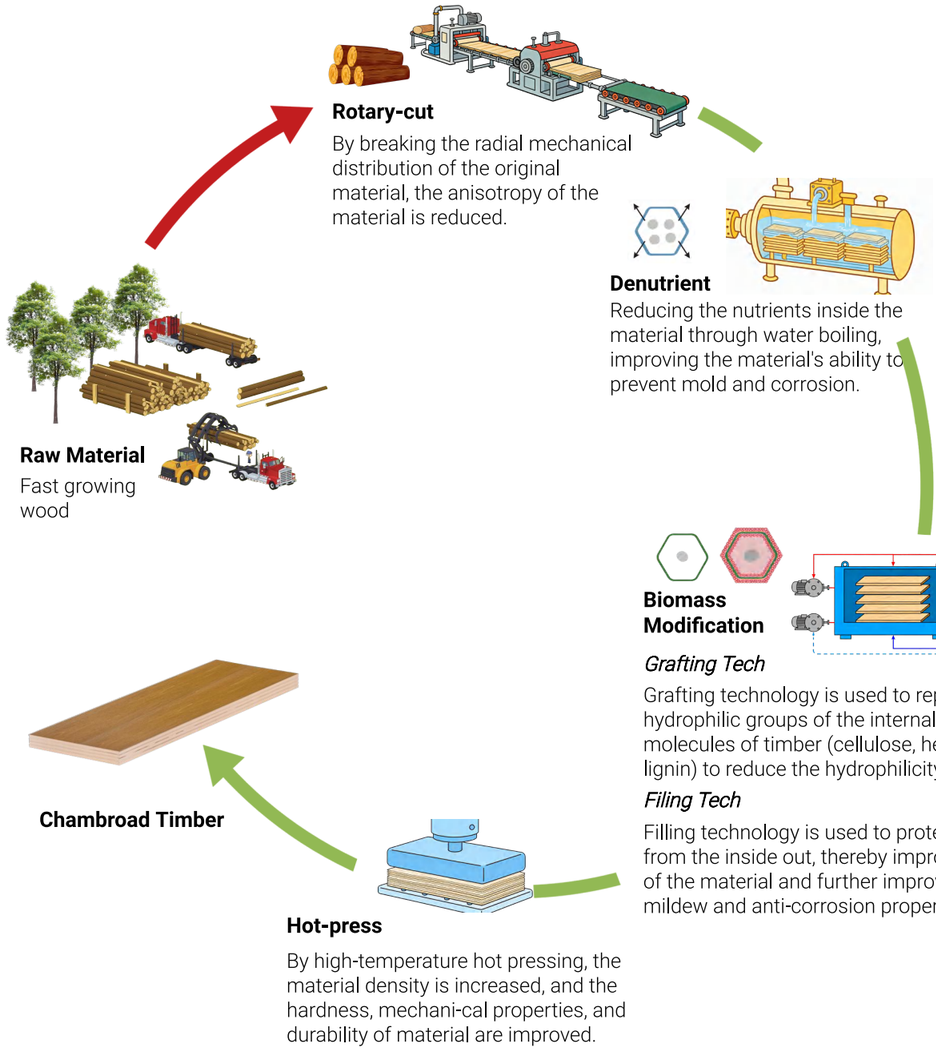
Controlling reactive groups boosts crosslinking 3x (wood-modifier & modifier-modifier).

Biomass Cell Wall Reinforcement Technology



Three-level regulation (cell wall, interface, surface) produces high-performance bio-based reinforcement.

What is Chambroad Timber



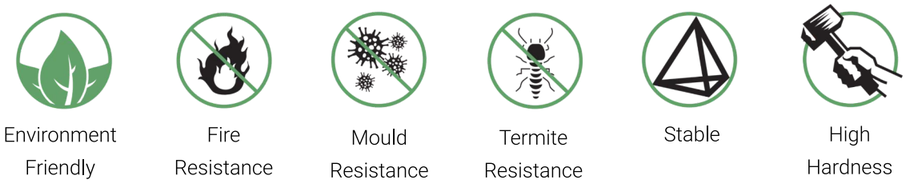
PERFORMANCE

ITEMS	UNITS	Chambroad Timber		Teak	Merbau	High-end Treated Bamboo	High-end WPC
		Marine Proof	Fire Proof				
Fire Rating	Class	B_{fl}-s1	B-s1,d0	D-s2,d0	D-s2,d0	C-s1,d0	D or E-s1
Salty Water Contacable	/	YES	YES	NO	NO	NO	NO
Termite Resistance	Class	DC D	DC D	DC M	DC M	DC D/M	DC M
Fungi Resistance	Class	1	1	1-3	2-3	1-3	1-3
Density	Kg/m^3	850-1000	1000-1250	655	900	900	1000
Janka Hardness	N	9053	9053	4740	7620	14800	Change with temperature
Bending Strength	MPa	170.1	170.1	97.1	115	84.4	27.4-40
Modulus of Elasticity	MPa	20120	20120	12280	15440	17366	4500
Thermal Conductivity	W/m·K	0.12	0.12	0.22	0.27	0.23	≈0.2

Data Reference

1,https://www.wood-database.com/ and EN350-2016 standard.
2,https://www.makeitfrom.com/compare/Hardwood/Spruce-Pine-Fir-SPF-Softwood
3,https://www.fpl.fs.usda.gov/documnts/fplgtr/fpl_gtr190.pdf

PRODUCT ADVANTAGES





Water Based Oiled

Eco-friendly and durable finishng solution.



Water-based Eco Oil

Professional outdoor water-based paint system with 8 standard colors for customization options.

Lasting Protection

Tested for weather resistance, hardness, abrasion, and anti-aging – validated through multi-brand comparison and real-world outdoor use.

Extreme Environment Testing

Salty Water Contact Test

35-month marine test with Qingdao National Marine Science Research Center: no structural damage, only natural aging. Reliable anti-corrosion for high-salt environments.





Samples in 35 months



Loss Rate

Merbau Teak Chambroad Timber

Low-Temperature Test

With stands liquid nitrogen (-196°C) with mechanical loss <5%, meeting L1004 standard for LNG (-163°C) tank applications.





Samples after cryogenic test

Samples	Parallel Tensile (MPa)	Internal Bond (MPa)
Normal 8% MC	9.11	4.46
Normal 13% MC	/	3.25
Cryo-treated 8% MC	8.31	4.25
Cryo-treated 13% MC	/	2.75

Underground Testing

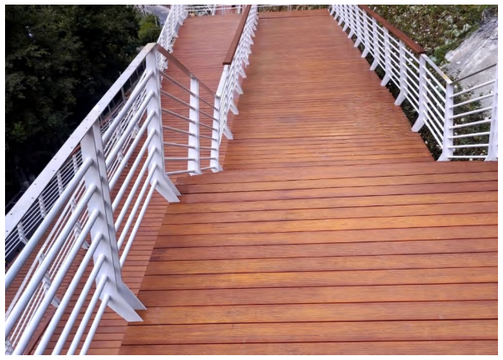
4-years burial test (GB/T 13942.2-2009): Use Class 4 – suitable for underground, soil-contact, and harsh environments.





02

PRODUCTCATEGORIES



Marine Proof Decking

When selecting decking, key factors include weather resistance, mold/insect protection, and strength. Chambroad Timber's special modification delivers a density of 850–1250 kg/m³, EN350 Class 1 mold resistance, and a bending strength of 170.1 MPa — ensuring long-lasting stability even in harsh weather.



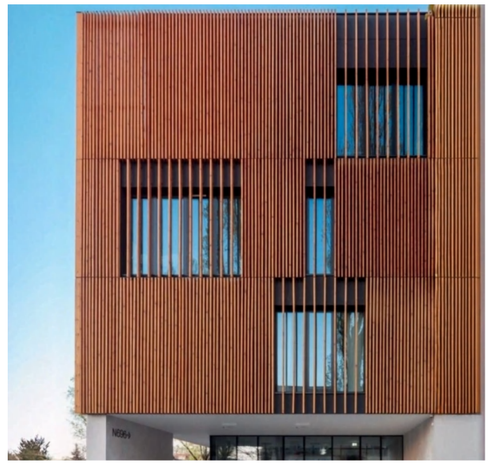
Fire Proof Cladding

The unique bio-mass modifier developed by Chambroad Timber is fully compatible with fire retardants. Through vacuum and pressure processes, both are thoroughly injected into wood cells. As a result, fire resistance is deep-rooted and permanent — not just surface-deep. Rigorously tested to European Standard Class B-s1, d0 (EN13501), it effectively reduces fire risks and ensures building safety. An ideal choice for high-performance outdoor materials.



Outdoor Soffit

Chambroad Timber soffit offers warm texture and premium feel of natural wood, with weather and moisture resistance that prevents warping and ensures lasting flatness. Without wood limits, it is ideal for residential, commercial, public, and coastal high-humidity applications.



Outdoor Lumber

Ideal for outdoor settings such as courtyards, hotels, and cultural tourism projects.



Outoor Handrail

Chambroad Timber hanrails offer safety and landscape beauty - ideal for courtyards, boardwalks, balconies, and other outdoor spaces.

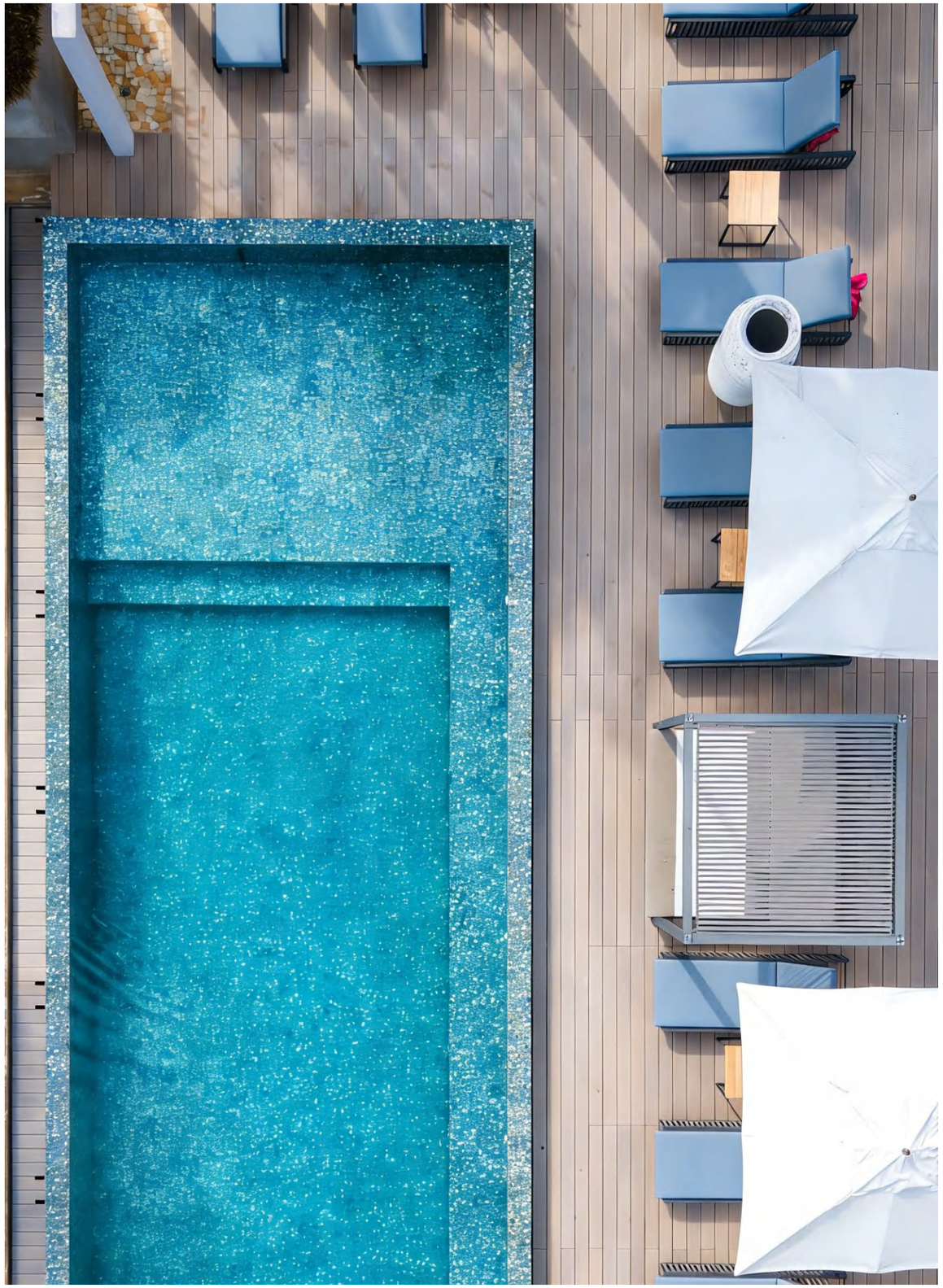
CHAMBROAD TIMBER

Marine Proof Decking

- EN 113-3 / EN 350: Decay resistance Class 1 - excellent durability.
- 35-month marine salt-spray test in Qingdao waters with no structural damage.
- DIN EN ISO 846: Mold resistance Class 0.
- EN 117: Termite resistance DC D - effectively protects against termite attack.
- EN 408: Modulus of elasticity 20,120 MPa, bending strength 170.1 MPa - suitable for high-frequency use.

Product	Dimension (mm)	Profile	Dispaly
MP-DF01-A20	20*148*2450		
MP-DW00-A20	20*148*2450		
MP-DV00-A20	20*148*2450		
MP-GRAD-A20	20*148*2450		

*Other sizes customizable upon request

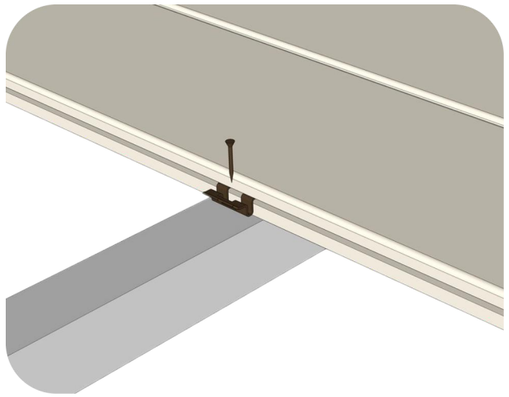




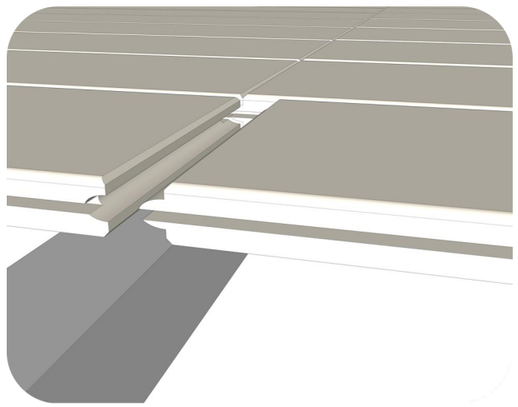
Claw Clip
(installation gap: 5mm)

3cm Screw

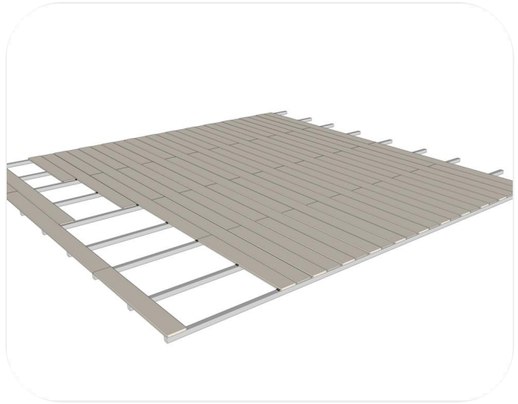
DECKING INSTALLATION



- Prepare: Claw clips and 3cm screws.
- Press the serrated side of the clip into the groove of the board. Use a special bit to tighten the screw, securing the board to the joist.
- Use a rubber mallet to snap next board into non-serrated side of clip. Repeat for installation.
- For 148mm deck, about 20 clips per square meter needed.



- The decking ends are tongue and groove design.



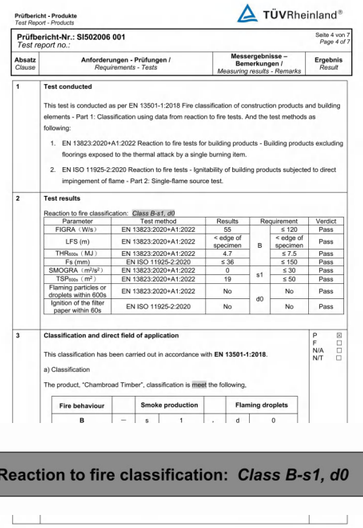
- The bottom of decking should be 40mm above ground. 40×40mm joists are recommended.
- Recommended joist center spacing: 490 mm.



CHAMBROAD TIMBER

Fire Proof Cladding

Flame retardant : Class B-s1,d0 (EN 13501-1).



Prüfbericht - Produkte
Test Report - Products

TÜVRheinland®

Prüfbericht-Nr.: SI502006 001 Seite 4 von 7
Test report no.: *Page 4 of 7*

Absatz *Clause*	Anforderungen - Prüfungen / *Requirements - Tests*	Messergebnisse – Bemerkungen / *Measuring results - Remarks*	Ergebnis *Result*

1 Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2020 Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single-flame source test.

2 Test results

Reaction to fire classification: Class B-s1, d0

Parameter	Test method	Results	Requirement		Verdict
FIGRA（W/s）	EN 13823:2020+A1:2022	55	B	≤ 120	Pass
LFS (m)	EN 13823:2020+A1:2022	< edge of specimen		< edge of specimen	Pass
THR_{600s}（MJ）	EN 13823:2020+A1:2022	4.7		≤ 7.5	Pass
Fs (mm)	EN ISO 11925-2:2020	≤ 36		≤ 150	Pass
SMOGRA（m^2/s^2）	EN 13823:2020+A1:2022	0	s1	≤ 30	Pass
TSP_{600s}（m^2）	EN 13823:2020+A1:2022	19		≤ 50	Pass
Flaming particles or droplets within 600s	EN 13823:2020+A1:2022	No	d0	No	Pass
Ignition of the filter paper within 60s	EN ISO 11925-2:2020	No		No	Pass

3 Classification and direct field of application — P ☒ F ☐ N/A ☐ N/T ☐

This classification has been carried out in accordance with **EN 13501-1:2018.**

a) Classification

The product, "Chambroad Timber", classification is meet the following,

Fire behaviour		Smoke production		Flaming droplets	
B	–	s	1	d	0

Reaction to fire classification: *Class B-s1, d0*

Product	Dimension (mm)	Profile	Display
FP-CF01-B15	15*131*2450		
FP-CP01-B15	15*131*2450		
FP-CP02-B15	15*131*2450		
FP-CP03-B15	15*131*2450		
FP-CF05-B18	18*148*2450		

*Other sizes customizable upon request

- EN 113-3 / EN 350: Decay resistance Class 1 - excellent durability.
- 35-months marine salt-spray test in Qingdao waters with no structural damage.
- DIN EN ISO 846: Mold resistance Class 0.
- EN 117: Termite resistance DC D - effectively protects against termite attack.
- EN 408: Modulus of elasticity 20,120 MPa, bending strength 170.1 MPa - suitable for high-frequency use.
- GB/T 17657: Nail holding power > 2000 N .

CLADDING INSTALLATION

Installation of cladding boards

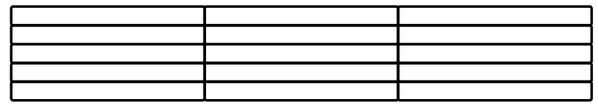
- Install the cladding from bottom to top.
- Fixing the first board to the joist at it's groove with clips and nailing at its tongue.
- Following boards will connect its groove to tongue of previous ones and its tongue will be fixed to joist by air nailing.

Note for installation of joist

- Installation: Apply the joist to a smooth, flat wall using expansion bolts.
- Spacing: Ensure the joists are properly leveled before installation. Joist spacing is recommended to ≤ 600mm.



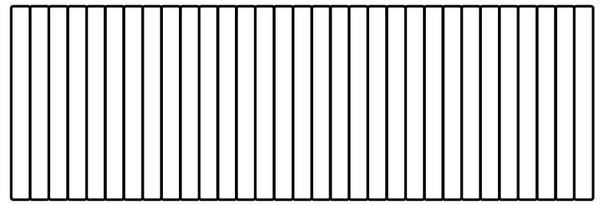
Installation Patterns



Horizontal Plank Installation



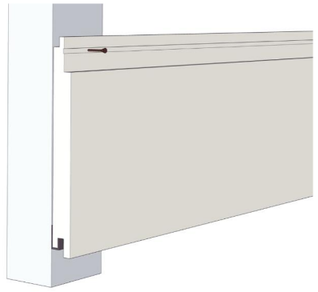
Staggered (Brick Bond) Installation



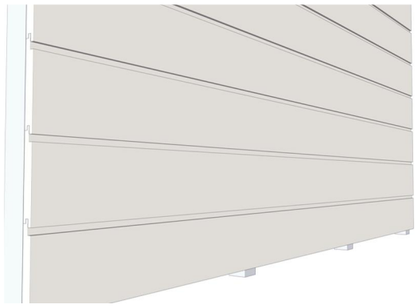
Vertical Installation



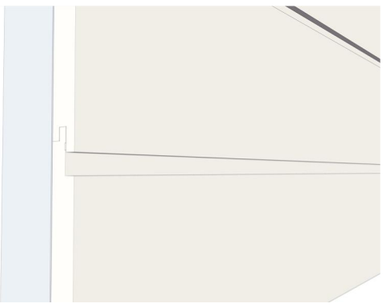
A Starting board fixation



B Nailing position



C End on joist



D Connecting method



CHAMBROAD TIMBER

Outdoor Soffit

Chambroad Timber soffit are made from eco-friendly materials, aligning with the concept of sustainable development. With advanced moisture-proof and anti-mold treatments, they offer excellent durability and resist deformation over time. The unique modification technology penetrates deep into the wood cells, effectively removing bond water. Even when crafted into thin panels, they maintain exceptional stability and are resistant to warping or deformation.

Product	Dimension(mm)	Profile	Display
MP-SF01-B13	13*82*2450		

*Other sizes customizable upon request

- EN 16516 standard, formaldehyde emission is < 0.02 mg/m³.
- EN 113-3 / EN 350: Decay resistance Class 1 - excellent durability.
- 35-months marine salt-spray test in Qingdao waters with no structural damage.
- DIN EN ISO 846: Mold resistance Class 0.
- EN 117: Termite resistance DC D - effectively protects against termite attack.
- EN 408: Modulus of elasticity 20,120 MPa, bending strength 170.1 MPa.
- GB/T 17657: Nail holding power > 2000 N.



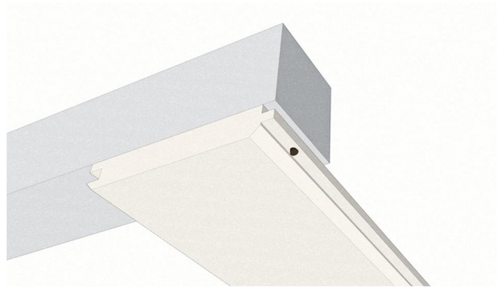
SOFFIT INSTALLATION

Installation of soffit boards

- Fixing the first board to joist at it's tongue with screw and nailing at its groove.
- The following boards will connect its tongue to groove of previous ones and its groove will be fixed to joist by air nailing.

Note

- Ceiling joists (40×40 mm cross-section) with spacing within 600mm for stability and load capacity.



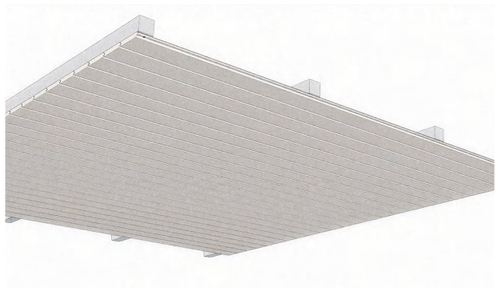
A. Starting board fixation



B.Nail installation



C. End on joist



D.Sequential nailing into groove



CHAMBROAD TIMBER

- EN 113-3 / EN 350: Decay resistance Class 1 - excellent durability.
- 35-months marine salt-spray test in Qingdao waters with no structural damage.
- DIN EN ISO 846: Mold resistance Class 0.
- EN 117: Termite resistance DC D - effectively protects against termite attack, ensuring long-term stability.
- EN 408: Modulus of elasticity 20,120 MPa, bending strength 170.1 MPa - suitable for high-frequency use.
- Elegant and versatile, with clear wood grain and crisp lines - adapts to various styles.

Outdoor Lumber

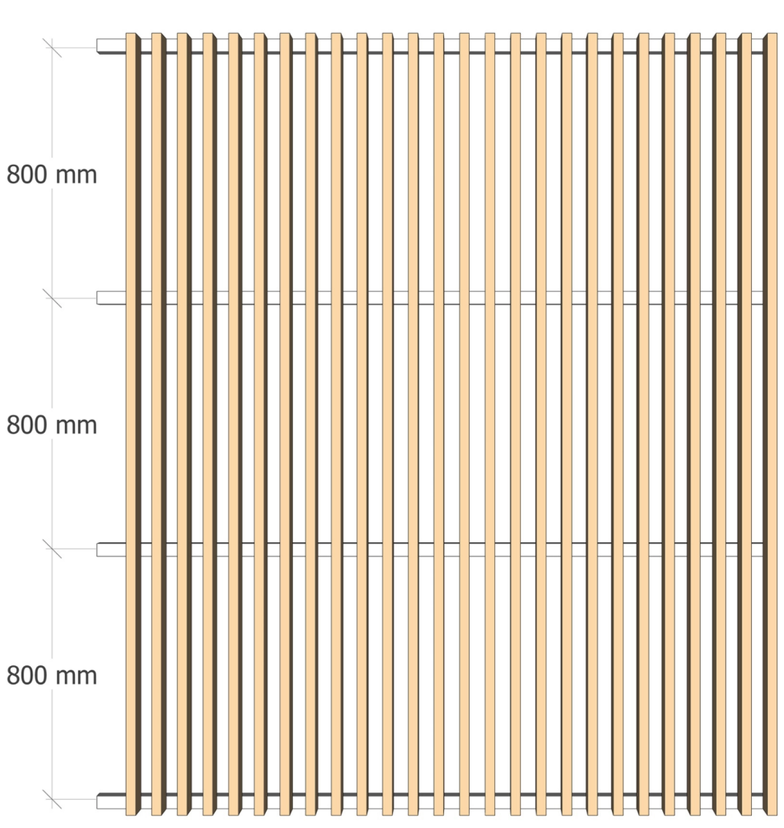
Product	Dimension (mm)	Profile	Display
MP-LF00-A30	30*82*2450		
MP-LF00-A40	40*131*2450		
MP-LF00-A50	50*148*2450		

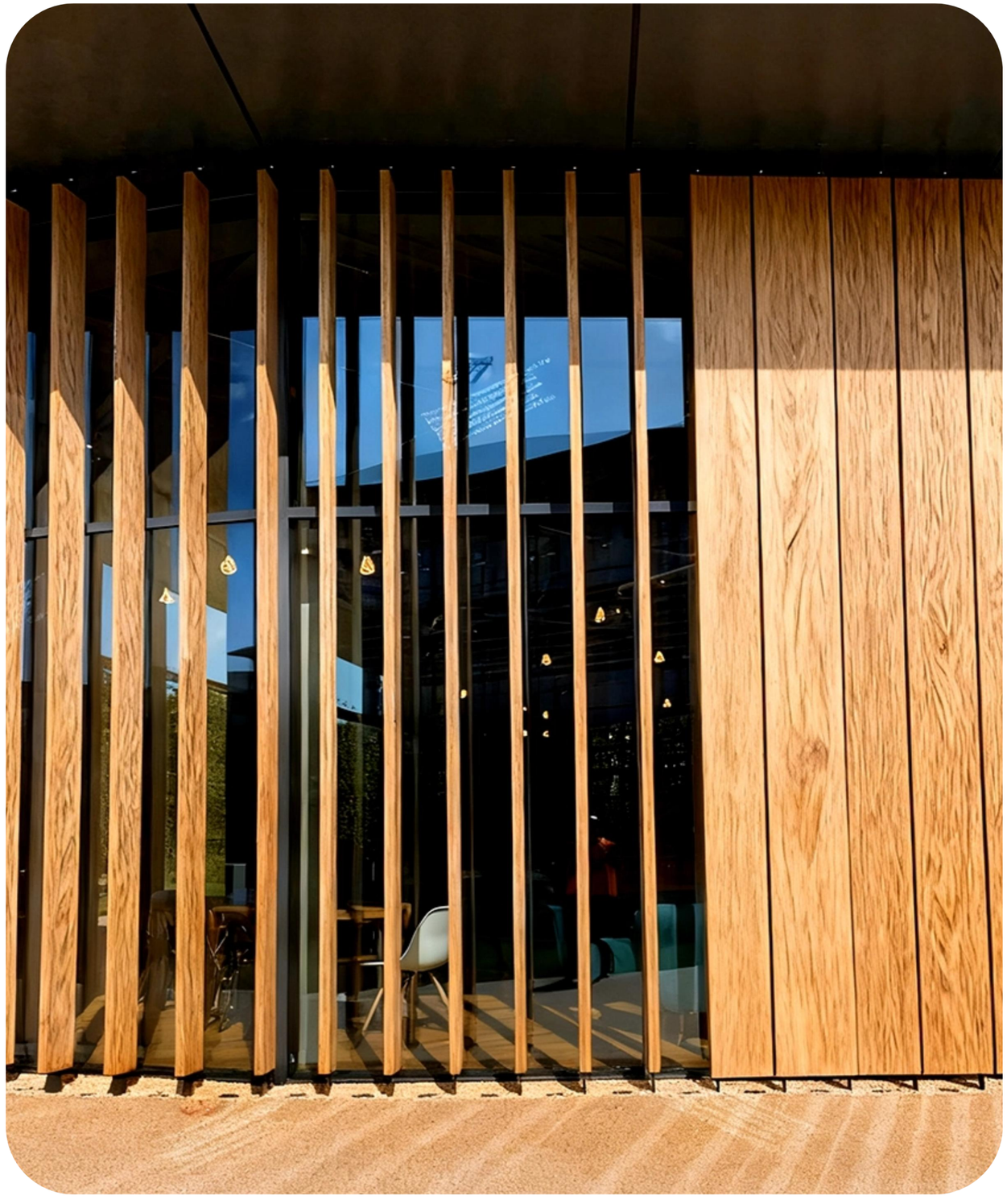


*Other sizes customizable upon request.

LUMBER INSTALLATION

- Our lumber support multiple installation methods,The installation plan is typically designed together with the application. Below are general installation instructions.
- Firstly, measure the space size for installing the panels. Then determine the required quantity and specifications of wood joists based on the panels.
- Ensure that the wall is flat and free of obstacles. If installation on wooden beams is required, make sure the beams are securely fixed.
- Assemble the slats to size. On the back side, use glue and self-tapping screws to fix the slats (30×70 mm) to the joists (40×40 mm). The center distance between two adjacent joists is 800 mm. Ensure that all connections are stable and reliable.
- Fix the 40×40 mm joists onto the flat wall. Determine the joist position according to the slat layout. Use an electric drill and self-tapping screws to connect the back strip to the joists, ensuring that the slats are completely secured to the joists.



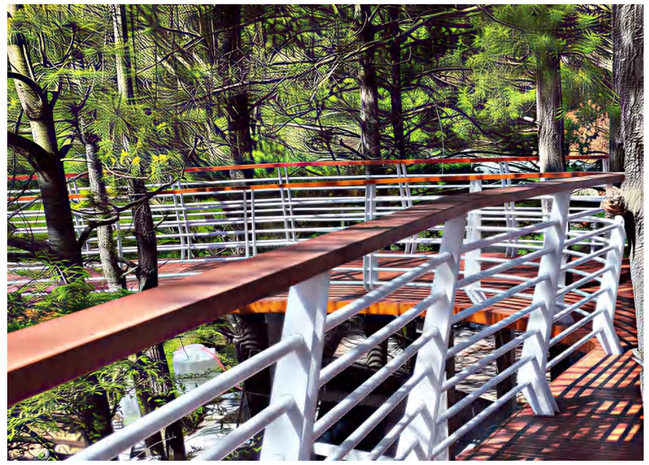


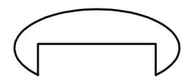
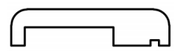
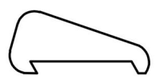
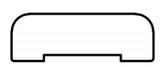
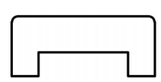
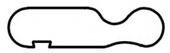
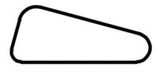
CHAMBROAD TIMBER

Outdoor Handrail

- EN 113-3 / EN 350: Decay resistance Class 1 - excellent durability.
- 35-months marine salt-spray test in Qingdao waters with no structural damage.
- DIN EN ISO 846: Mold resistance Class 0.
- EN 117: Termite resistance DC D - effectively protects against termite attack.
- EN 408: Modulus of elasticity 20,120 MPa, bending strength 170.1 MPa - suitable for high-frequency use.
- GB/T 17657: Nail holding power > 2000 N.





Product	Dimension (mm)	Profile	Display
MP-HR01-C64	64*160*2450		
MP-HR02-C34	34*150*2450		
MP-HR03-C54	54*118*2450		
MP-HR04-C40	40*120*2450		
MP-HR05-C50	50*120*2450		
MP-HR06-C30	30*120*2450		
MP-HR07-C50	50*50*2450		
MP-HR08-C70	φ70*2450		
MP-HR09-C32	32.5*81*2450		
MP-HR10-C31	31*70*2450		

*Other sizes customizable upon request.

HANDRAIL INSTALLATION

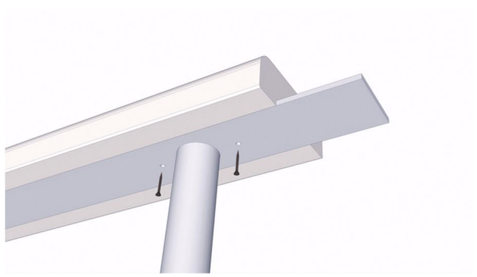
- Handrails support multiple installation methods. The installation plan is typically designed together with the application scenario. Below are general installation instructions.
- Pre-drilling: Pre-drill holes at the marked positions on the handrail. Keep the drill bit perpendicular to avoid hole deviation or cracking.
- Insert steel bracket: Accurately snap the prefabricated steel bracket into the corresponding slot / mounting position on the bottom of the handrail. Ensure the bracket fits tightly with no looseness or misalignment.
- Fine-tune angle: Align the visible surface of the handrail. Slightly adjust the horizontal and inclined angles so that all handrails in the same area have consistent height and angle.
- Fix installation: Secure the handrail to the steel bracket through the pre-drilled holes using screws. Tighten evenly to avoid deformation or thread stripping, ensuring a stable installation.



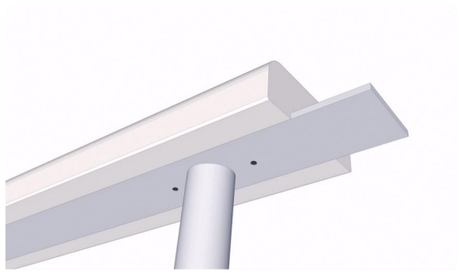
A. Pre-drilling



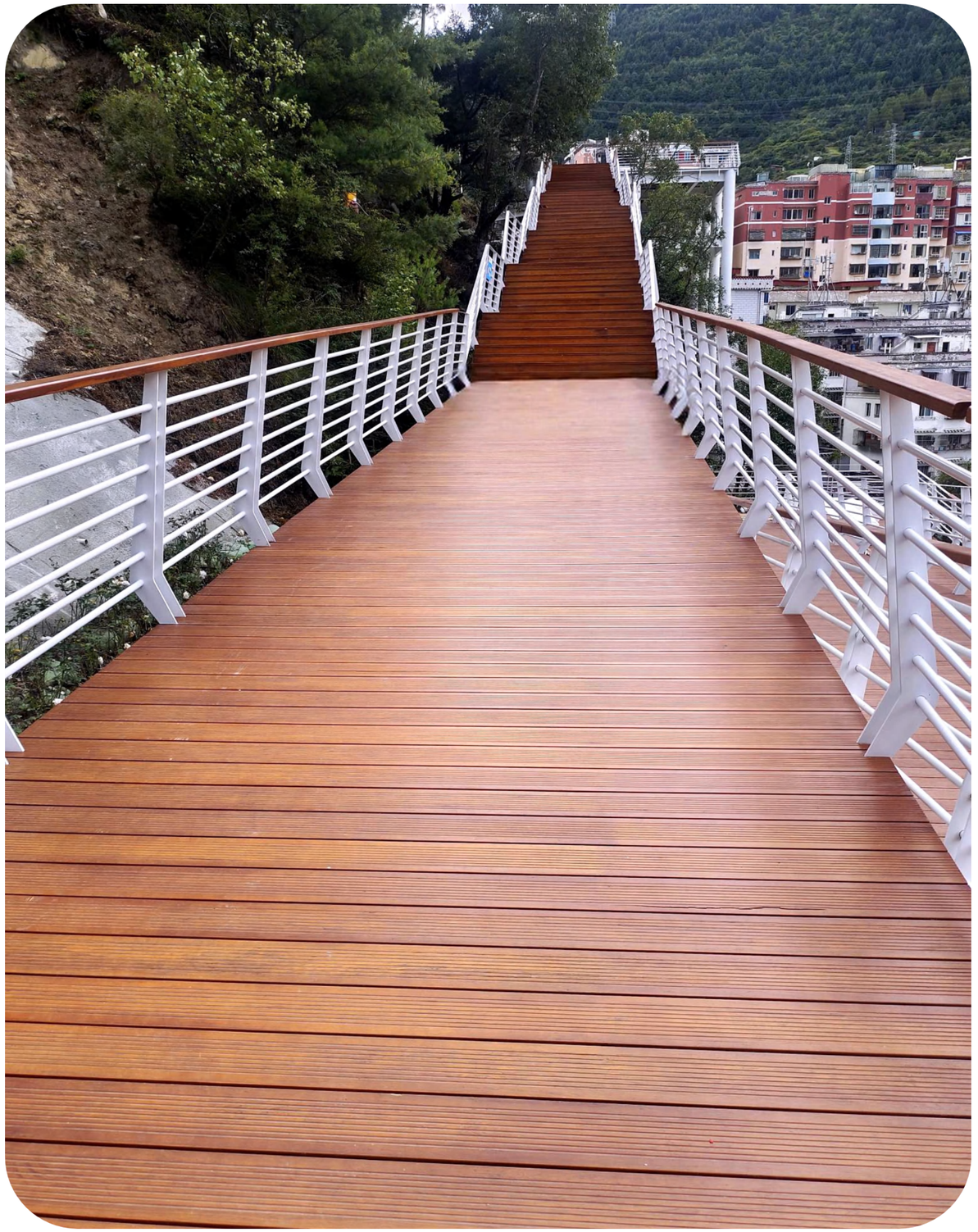
B. Insert steel bracket



C. Fine-tune angle



D. Fix installation



03

PROJECTS



Chambroad Office Park

Location: Shandong

Time: Jan. 2015

Application: MP decking









City Park - Binzhou

Location: Shandong

Time: April 2022

Application: MP decking

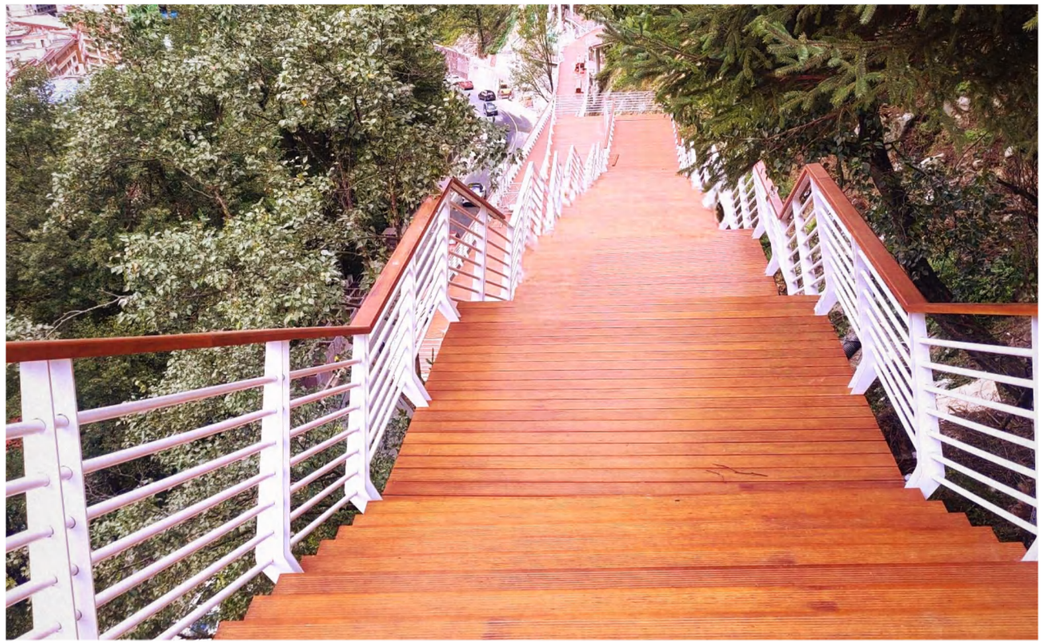


Alibuguo City Walkway Project

Location:Sichuan

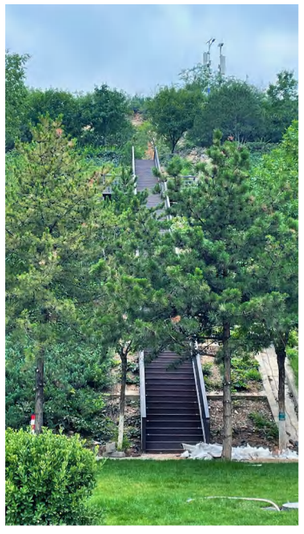
Timer: July 2025

Appilication: MP decking, handrail









Mountain Climbing Walkway - Beijing

Location: Beijing

Time: July 2024

Application: MP decking, handrail





Urban Water Park - Beijing

Location:Beijing

Time: June 2020

Application: MP deccking













Dishui Lake Boardwalk

Location:Shanghai

Time: October 2022

Application: MP decking

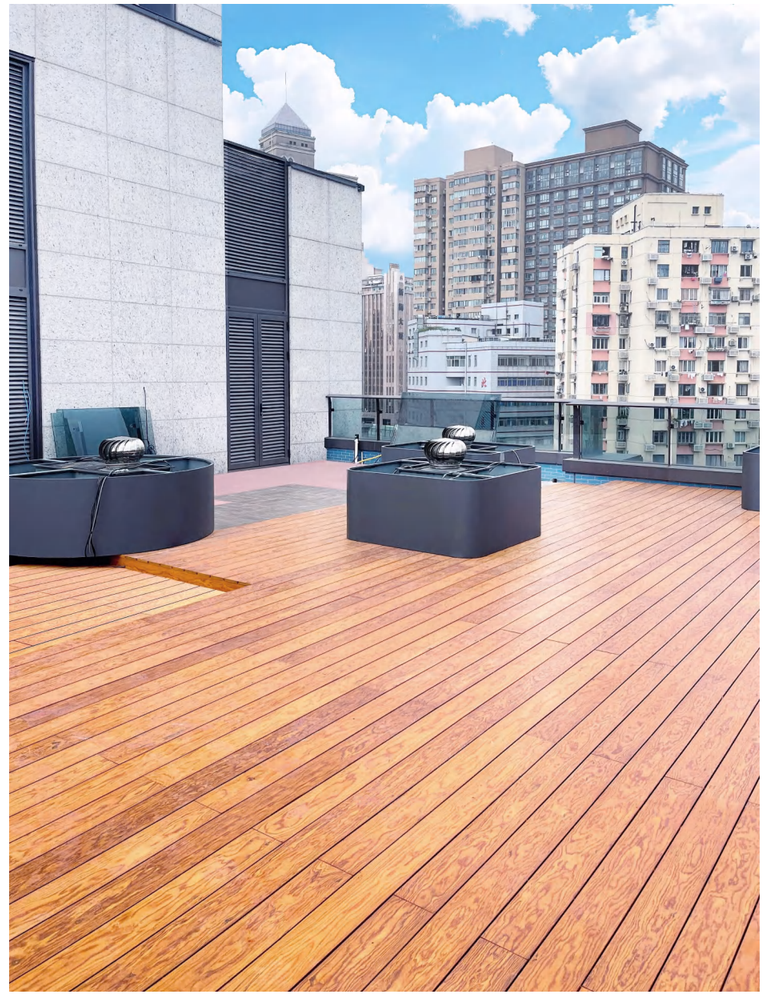


High Building Rooftop Terrace

Location: Shanghai

Timer: July 2023

Application: MP decking



Residential Pool Decking Project

Location: Middle East

Time: June 2025

Application: MP decking









Tourist Center & Hotel - Jinan

Location: Shandong Jinan

Time: Aug. 2025

Application: FP cladding

Zero-carbon
Timber Building Project

Location: Hebei

Time: June 2025

Application: FP cladding, windows&doors









Green Building Center Project

Location: Liaoning

Time: June 2022

Application: Cladding



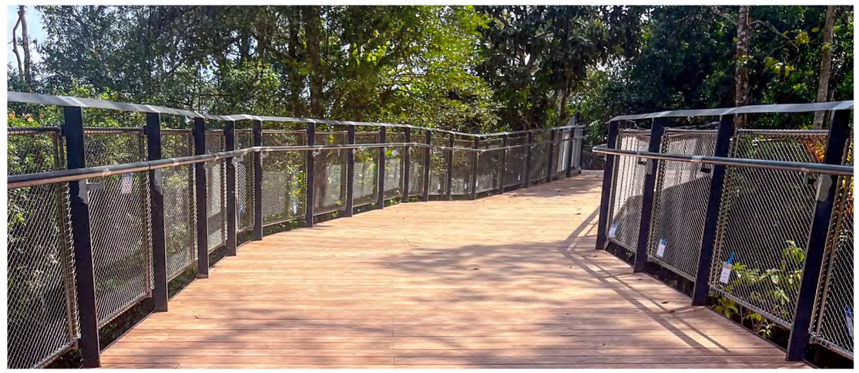
Singapore Mandai Wildlife Reserve Project

Location Singapore

Time: July,2024

Application: MP decking, cladding, handrail







Thailand Exhibition Hall Project

Location : Thailand

Time: Jan. 2025

Application: MP decking, soffit



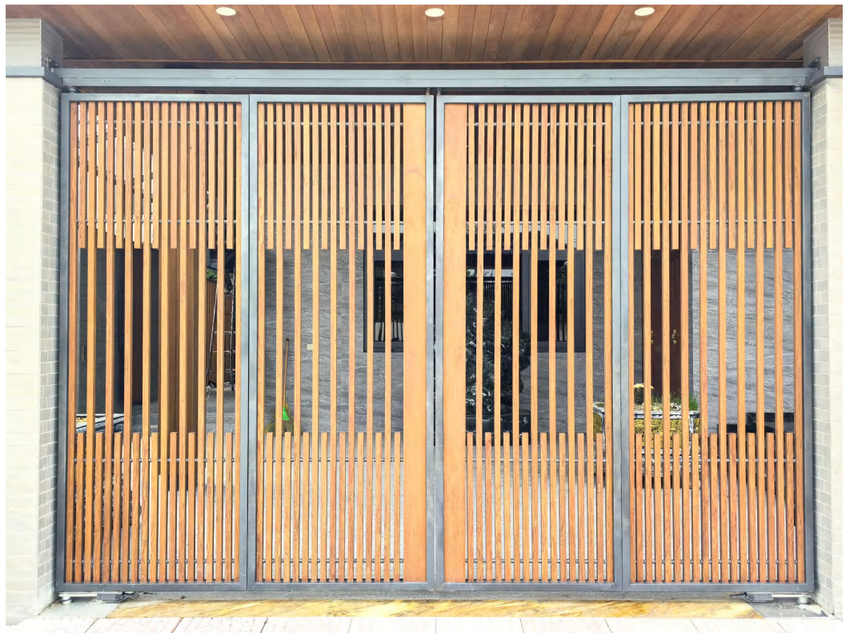
High-end Eco Villa Project

Location: Vienam

Time: March 2026

Application: Outdoor lumber, soffit.







Chambroad Headquarters Office Building

Location: Shandong

Time: June 2021

Application: Lumber, handrail, windows



