



Establishing a Global Leader in Wood Technology

SHANDONG XINGANG GROUP

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新港集团

XINGANG GROUP

THE LARGEST & MOST PROFESSIONAL
CHIPBOARD & MDF & PLYWOOD
MANUFACTURER
IN CHINA



ABOUT XINGANG

Shandong Xingang Group was founded in 1993 and has been committed to the field of eco-friendly new materials in the wood industry for more than 30 years.

- Xingang Vision:** Establishing a Global Leader in Wood Technology;
Xingang Mission: Biomimetic Formaldehyde Free, Benefiting Humanity;
Xingang Values: Disciplined Accountability, Innovative Efficiency, Synergistic Growth;
Xingang Honor: National High Tech Enterprise, One of The First Batch of Key Forestry Leading Enterprises in China, Vice President Unit of China Forestry Industry Association;
Xingang Pioneer: Xingang Biomimetic Adhesive — 0 Formaldehyde, 0 Benzene, 0 Harmful Substance;

Xingang Product System:

- Annual production of 300,000 m³ **Xingang Biomimetic Chipboard**
- Annual production of 200,000 m³ **Xingang Biomimetic MDF**
- Annual production of 200,000 m³ **Xingang Plywood**

Xingang Certificates: More than 30 authoritative certifications worldwide,including ISO9000,FSC,CE ,CARB,EPA, UL Gold Certification, CDPH Environmental Protection Certification in the United States, and TVOC V++Level from China Academy of Building Research.

Global Operation System: Exporting to more than 100 countries and regions.
Serving over 150 domestic and international high-end agents, with an annual turnover exceeding 200 million US dollars.

Shandong Xingang Group will join hands with global partners to build a green home ecosystem, creating a healthier and more sustainable ideal living space for humanity.

MEMORABILIA OF XINGANG GROUP



The establishment of Xinxin Plywood Factory, opened up the poem of Xingang entrepreneurship.



Shandong Xingang Group Co.,Ltd. was established.



Xingang Formwork Engineering Technology Co.,Ltd. was listed in the national SME share transfer system.



The production of Xingang Brand ultra-thin MDF has started, using the Yalian ultra-high speed Continuous flattening line machine, with an annual output of 200,000 m³.



2024 Xingang Biomimetic Products Launch Conference



Linyi Xingang Wood Co.,Ltd. was established which produce film faced plywood, commercial plywood.



Shandong Xingang Formwork Engineering Technology Co.,Ltd. was established.



Tackling "formaldehyde-free" biomimetic adhesive and formaldehyde-free biomimetic wood-based panel technology,the annual production of Xingang Brand Particle board has increased to 300,000 m³.



Launched the " Xingang Biomimetic Decorative board" strategy.



2025 Xingang Group Biomimetic Marine Plywood Global Launch



XINGANG BIOMIMETIC ADHESIVE

Originating from biomimetics, deriving inspiration from nature.

Xingang Biomimetic Adhesive — 0 formaldehyde,0 benzenen,and 0 harmful substance, has been successfully applied on a large scale in Xingang Biomimetic Decorative Panel,Xingang Biomimetic F-LSB, Xingang Biomimetic ultra-thin MDF and Xingang Biomimetic Marine Plywood. The Xingang board meet the national standards in the physical & chemical properties ,and environmentally-friendly.



6 MAJOR FEATURES

- Biomimetic Technology
- Flexible Surface Technology, Addressing Embossing Problems
- High Bonding Strength, No Cracking or Layering
- Save Tools, not Easy to Break Edges
- The Entire Process is Non-Toxic, Pollution-Free, Environmentally Friendly
- Healthy and Environmentally Friendly, with no Occupational Hazards, Requiring no Special Protective Measures

XINGANG R&D CENTER



XINGANG BIOMIMETIC
ALL CATEGORIES OF HENF



The Xingang Biomimetic all categories of HENF, paired with Xingang Biomimetic environmentally friendly Adhesives, perfectly cover the three mainstream panel products in the market: particle board, MDF, and plywood, fully meeting the diverse needs of the market.



CORE ADVANTAGE

- 1. Xingang Biomimetic Adhesive Developed by Academician Li Jian's Team
- 2. China's First Near-Zero Odor Health Product Certification
- 3. 24h+National Environmental Standards for Pregnant and Infant Level
- 4. Antibacterial and Antiviral Efficacy
- 5. HENF Environmental Grade for Heating Season
- 6. High-Strength Water-Resistant Bonding Method



Name of Sample			XINGANG BIOMIMETIC DECORATIVE PANEL			
No.	Test Items		Unit	Test Standard	Test Result	Conclusion
1	Static Bending Strength		Mpa	≥11.0	15.1	Pass
2	Elastic Modulus		Mpa	≥1600	3290	
3	Internal Bonding Strength		Mpa	≥0.35	0.47	
4	Surface Bonding Strength		Mpa	≥0.60	1.75	
5	2 Hours Thickness Swelling Rate		%	≤8.0	0.3	
6	Moisture Content		%	3.0 ~ 13.0	5.9	
7	Screw Holding Capability	Surface	N	≥900	1250	
		Edge		≥600	930	
8	Surface resistance to hot and cold		— —	No cracks, bubbling, discoloration, wrinkles, etc.	No cracks, no bubbling, no discoloration, no wrinkles	
9	Surface Scratch Resistance		— —	≥1.5N	1.5N No more than 90% of continuous scratches on the surface	
10	Surface Wearable	Wear values	mg/100r	≤80	35	
		Surface condition	— —	After grinding for 100 revolutions, more than 50% of the pattern should be retained.	75% of the pattern is retained after 100 revolutions of grinding	
11	Surface dry heat resistance		— —	Reach level 4 or above	level 4	
12	Surface Contamination Corrosion Resistance		— —	Reach level 5 or above	level 5	
13	Surface Cracking Resistance		— —	Reach level 4 or above	level 5	
14	Surface Water Vapor Resistance		— —	Reach level 4 or above	level 4	
15	Colour Fastness		Level	Blue wool cloth level 6	Greater than 4 levels of grayscale card	
				Reach grayscale card level 4		

XINGANG BIOMIMETIC DECORATIVE PANEL



Core	CHIPBOARD & MDF & PLYWOOD
Glue	XINGANG BIOMIMETIC GLUE(HENF GRADE)
Size	1220 × 2440/2800 × 9-25mm/as requested
Density	500-700 kg/m³
Surface Design	Melamine paper,PET, Nature Veneers or as requested
Feather	<ul style="list-style-type: none">• Achieving HENF heating-grade environmental protection;• Meeting the national environmental protection standards for pregnant women and infants (24h+);• Achieving first-level antibacterial and anti-viral efficacy.



XINGANG BIOMIMETIC F-LSB

Core	High Grade Imported Pine
Glue	XINGANG BIOMIMETIC GLUE(HENF GRADE)
Size	1220 × 2440/2800 × 9-25mm/as requested
Density	650 kg/m³
Surface Design	Melamine paper,PET, Nature Veneers or as requested
Feather	<ul style="list-style-type: none">• Super flat and easy to decorate;• Large wood shaving, structurally stable;• High strength and strong water resistance.• The world's leading healthy and environmentally friendly materials.



XINGANG BIOMIMETIC HDF

Core	High Grade Imported Pine
Glue	XINGANG BIOMIMETIC GLUE(HENF GRADE)
Size	1220 × 2500/2830 × 0.8/1.0/1.2/1.5/2.0/as requested
Density	1000+ kg/m³
Surface Design	Melamine paper,PET, Nature Veneers or as requested
Feather	<ul style="list-style-type: none">• Flexible surface technology, easy to decorate and carve;• High strength and strong water resistance;• Good stability and easy processing;• The world's leading healthy and environmentally friendly materials.



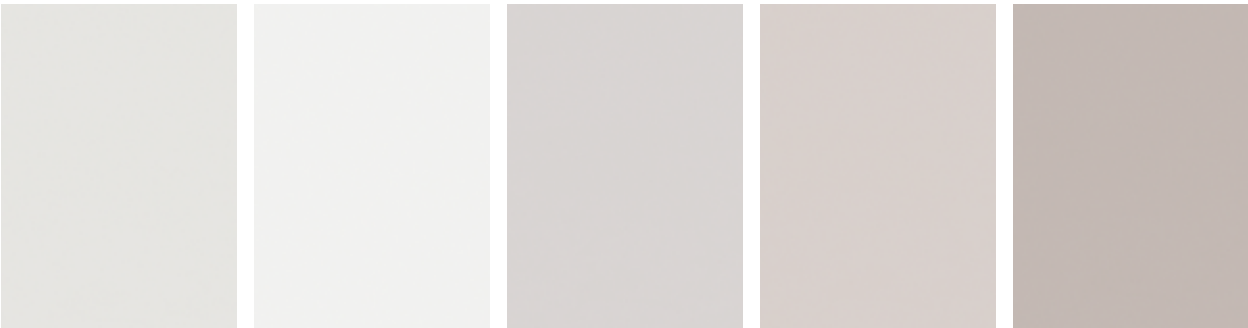
XINGANG BIOMIMETIC MARINE PLYWOOD



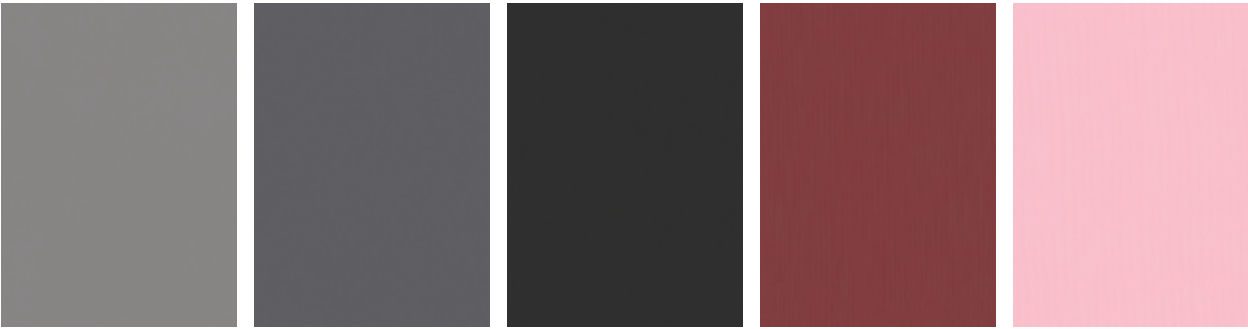
Core	Hardwood,Birch
Glue	XINGANG BIOMIMETIC GLUE(HENF GRADE)
Size	1220 × 2440 / 9-25mm/as requested
Density	550 - 700 kg/m³
Surface Design	Melamine paper,PET, Nature Veneers or as requested
Feather	<ul style="list-style-type: none">• Various fine techniques,High bonding strength and strong water resistance.• The antibacterial rate 99.99%, meeting the national standard;• The world's leading healthy and environmentally friendly materials.



XINGANG BIOMIMETIC THEME DECORS



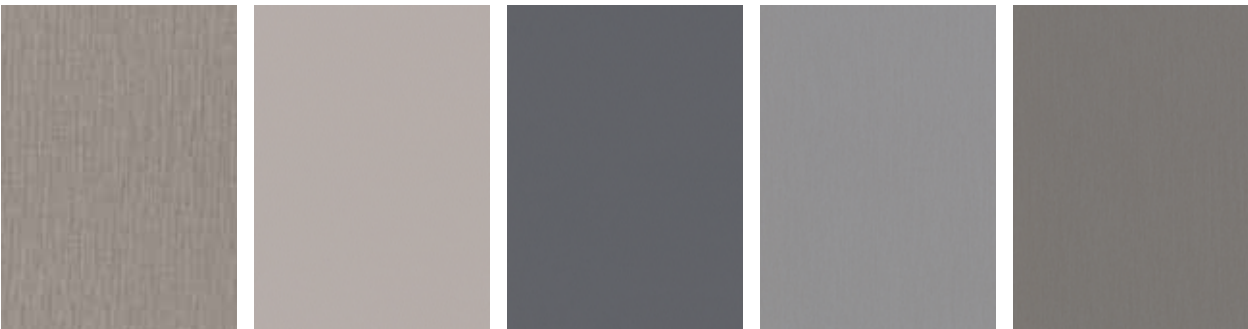
XG C301 XG C302 XG C303 XG C304 XG C305



XG C306 XG C307 XG C308 XG C309 XG C310



XG C311 XG C312 XG G301 XG G302 XG G303



XG G304 XG G305 XG G306 XG G307 XG G308



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XG M306 XG M307 XG M308 XG M309 XG M310

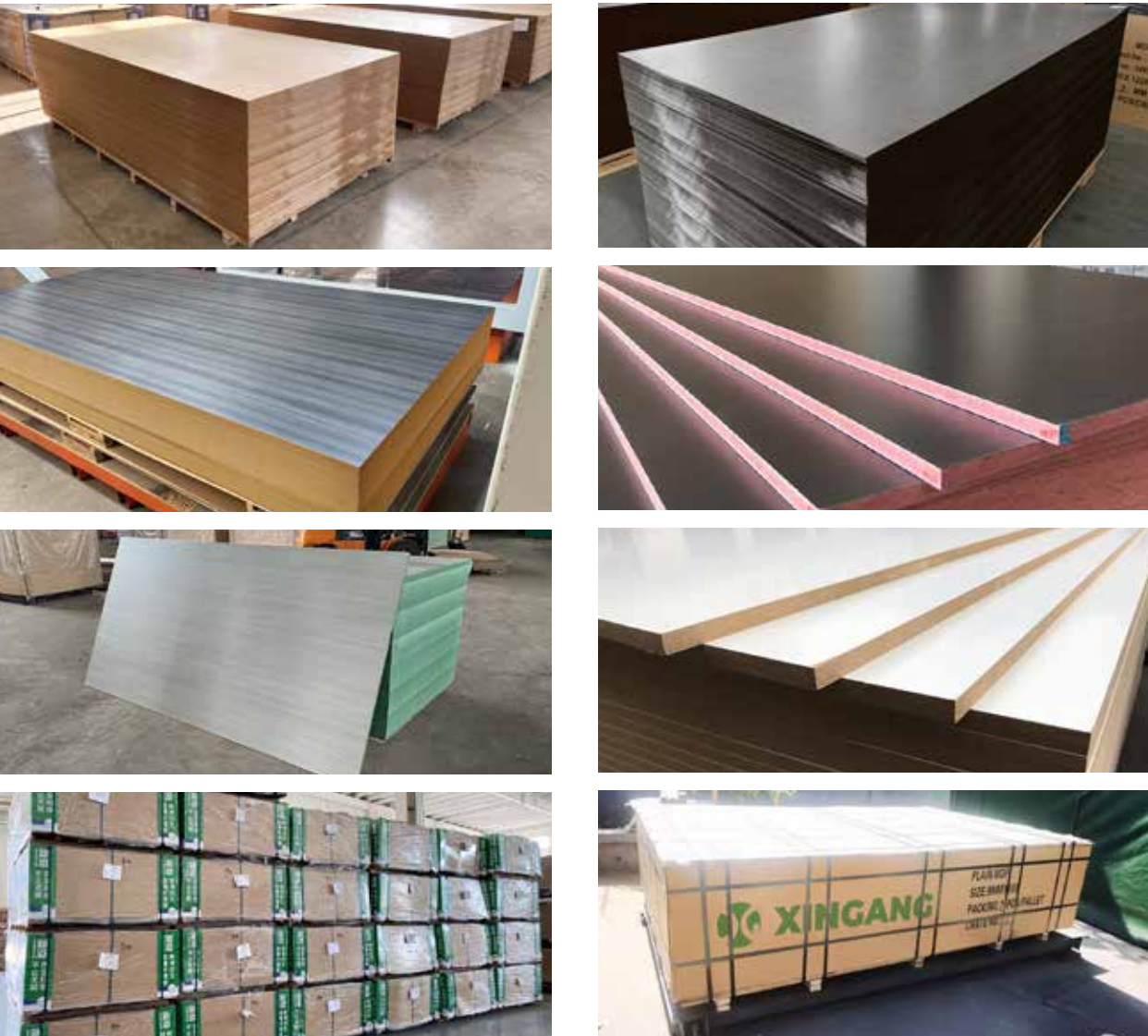


XG M311 XG M312 XG M313 XG M314 XG PBM02



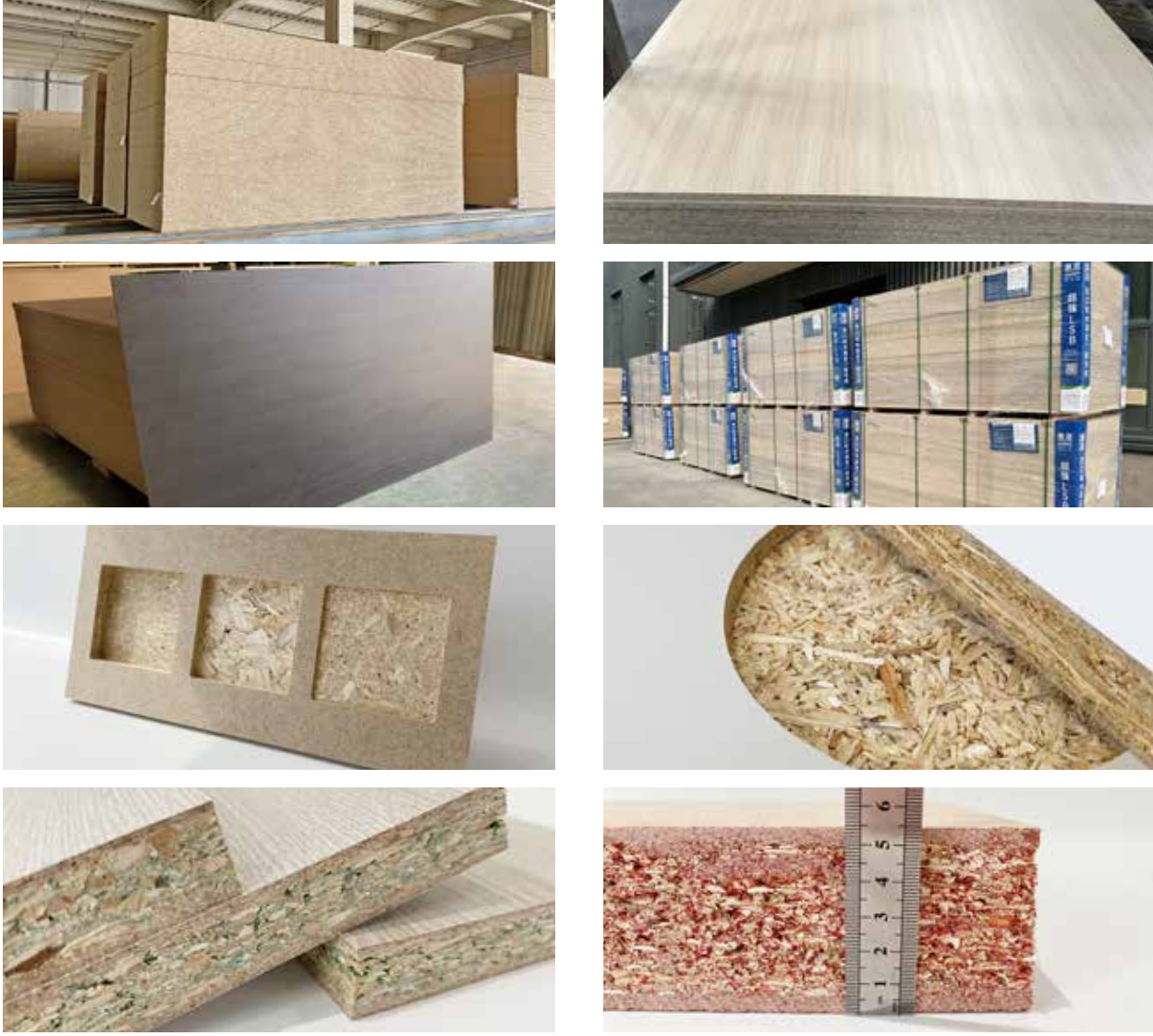
XG PBM03 XG PBM04 XG PBM05 XG PBM06 XG PBM07

MEDIUM DENSITY FIBREBOARD (MDF)



Size	1220x2440mm, 2100x2800mm, 1830x2440mm or as requested
Thickness	0.8-25mm
Surface Design	Melamine paper (Glossy,Matt,Embossed etc.) Beech, Oak,Walnut,Maple,Teak, Cherry, Ivory or as requested
Glue	E0,E1,E2,P2,MR
Density	630kg/m³-800kg/m³
Species	Poplar,Pine and Hardwood etc.

CHIPBOARD / PARTICLE BOARD



Size	1220x2440mm, 2100x2800mm, 1830x2440mm or as requested
Thickness	9-25mm
Surface Design	Melamine paper(Glossy,Matt,Embossed etc.)Beech, Oak,Walnut,Maple,Teak,Cherry, Ivory or as requested
Glue	E0,E1,E2,P2,MR
Density	650kg/m³
Species	Poplar,Pine and Hardwood etc.

FILM FACED PLYWOOD



Size(mm)	915x1830, 1200x2400, 1220x2440, 1250x2500, 1500x2500, 1500x3000 etc
Thickness(mm)	6.5, 9, 12, 15, 18, 20, 21, 24, 27, 30, 35
Length&width tolerance	+/-2mm
Number of layers	from 5 up to 21 depending on thickness
Core	Poplar , Hardwood , Birch , Pine , Combi
Water resistance	WBP,Phenolic

Tested Item Type:full birch film faced plywood 18mm.

Sr No.	Property		Unit	Test Method	Value of Test	Result
1.	Moisture Content		%	EN 322	8.1	Check out
2.	Density		kg/m³	EN 323	690	Check out
3.	Bonding Quality	Bonding Quality	Mpa	EN 314	Max: 1.85	Check out
		Damage Rate	%	——	94%	
4.	Bending Modulus of Elasticity	Longitudinal	Mpa	EN 310	9610	Check out
		Lateral			7360	
5.	Bending Strength N/mm	Longitudinal	Mpa		79	Check out
		Lateral			77.3	
6.	Cycle Life	About 30-50 Repeated Using Times According to Projects by Formwork Application				

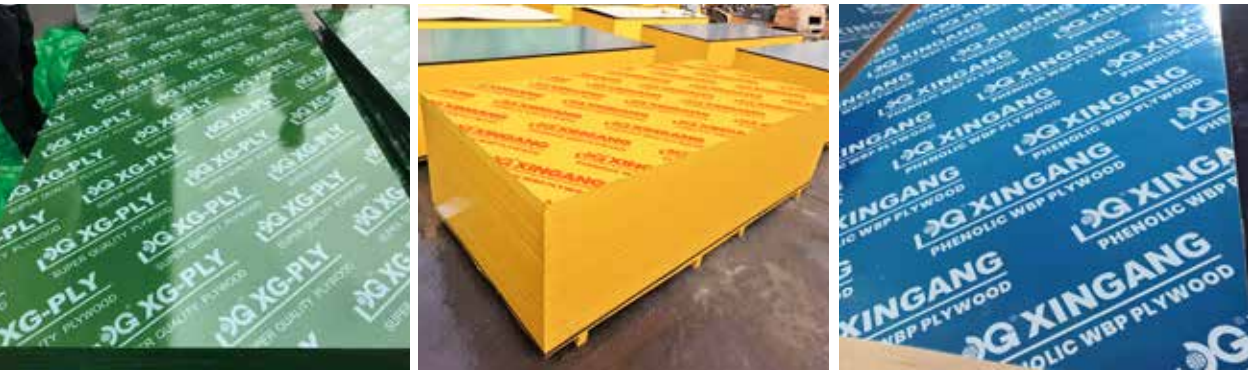
Tested Item Type:full hardwood film faced plywood 18mm.

Sr No.	Property		Unit	Test Method	Value of Test	Result
1.	Moisture Content		%	EN 322	7.8	Check out
2.	Density		kg/m³	EN 323	635	Check out
3.	Bonding Quality	Bonding Quality	Mpa	EN 314	Max: 1.68	Check out
		Damage Rate	%	——	85%	
4.	Bending Modulus of Elasticity	Longitudinal	Mpa	EN 310	6830	Check out
		Lateral			6090	
5.	Bending Strength N/mm	Longitudinal	Mpa		59	Check out
		Lateral			43.9	
6.	Cycle Life	About 15-25 Repeated Using Times According to Projects by Formwork Application				

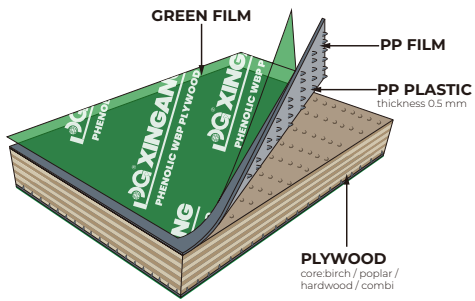
Tested Item Type:full poplar film faced plywood 18mm.

Sr No.	Property		Unit	Test Method	Value of Test	Result
1.	Moisture Content		%	EN 322	8.4	Check out
2.	Density		kg/m³	EN 323	530	Check out
3.	Bonding Quality	Bonding Quality	Mpa	EN 314	Max: 1.40	Check out
		Damage Rate	%	—	74%	
4.	Bending Modulus of Elasticity	Longitudinal	Mpa	EN 310	5215	Check out
		Lateral			4796	
5.	Bending Strength N/mm	Longitudinal	Mpa		52.74	Check out
		Lateral			43.55	
6.	Cycle Life	About 8-15 Repeated Using Times According to Projects by Formwork Application				

PLASTIC FILM COATED PLYWOOD



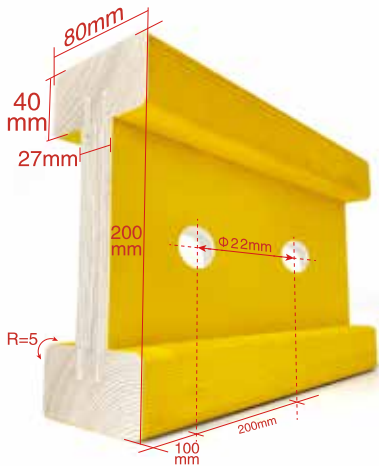
Size	915x 1830mm, 1220 x 2440mm
Thickness	9/12/15/18/24mm etc
Density	530-700 kg/m³
Glue	Melamine WBP, Phenolic WBP
Core	Poplar, Eucalyptus, Combi, Hardwood, Pine, Birch, etc
Film color	Green, Yellow, Blue etc
Moisture content	6 - 12%
Thickness tolerance	±0.5mm
Edge sealing	Waterproof acrylic paint



H-BEAM,I-JOINT(BEAM FOR FORMWORK)



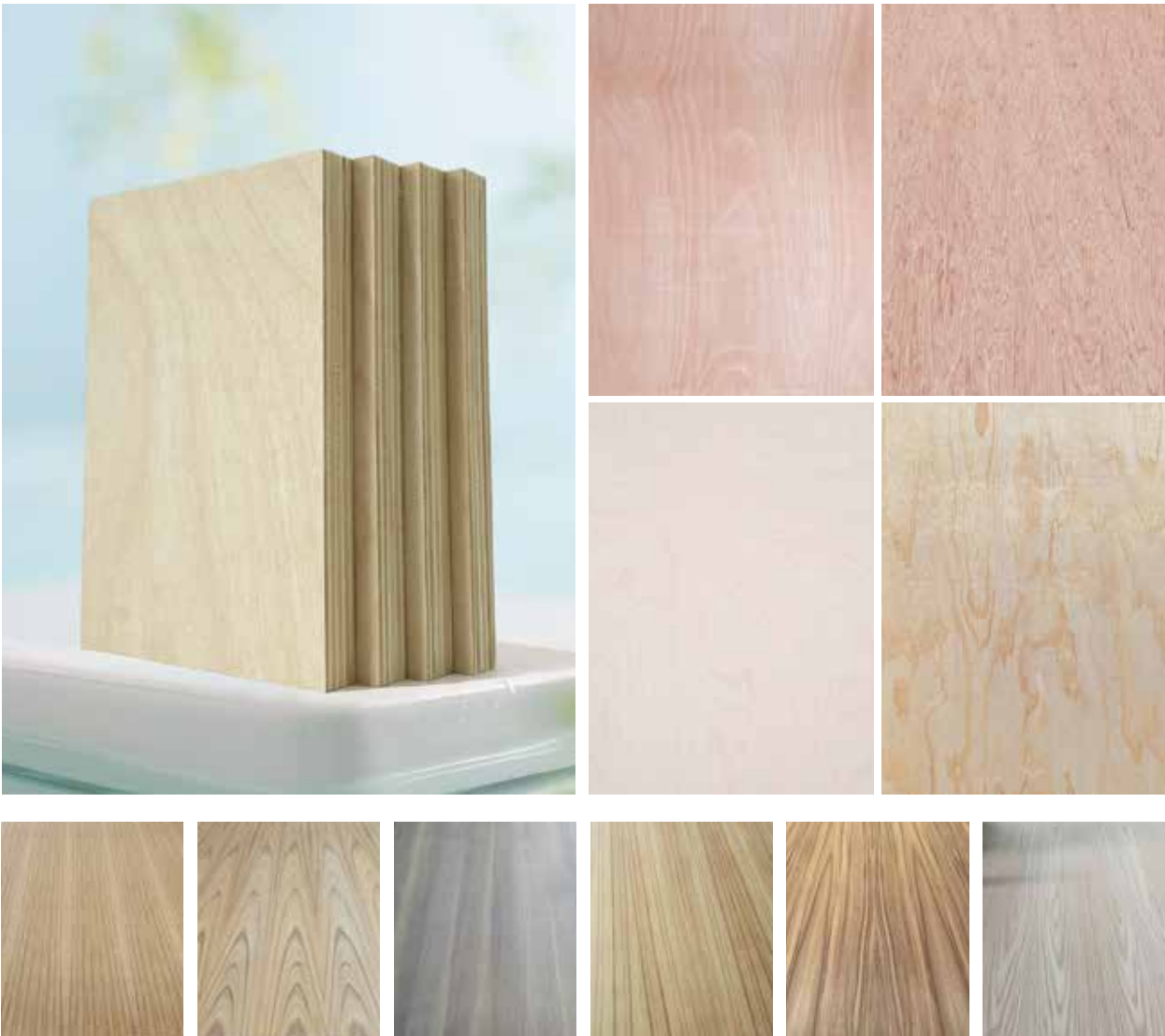
Weight	4.8kgs per meter
Shear Resistance (V)	38KN
Bending Resistance (M)	25KNm
Bearing Resistance(Rb)	70KN
Bending Stiffness(EI)	460KNm2
Length	1.0-6.3m
Standard Size	20cm(height) x8cm(width)x4cm (flange thickness)x27 mm(web thickness)
Flange	Spruce or pine
Web	Eucalyptus and poplar core plywood



ANTI-SLIP FILM FACED PLYWOOD



COMMERCIAL PLYWOOD / FANCY PLYWOOD



Standard Size	1220x2440mm, 1200x2400mm, 950x2150mm, etc
Thickness	1.2-25mm
Core	Poplar,Hardwood,and Combi etc
Glue	E0,E1,E2,MR,WBP
Face&Back	Okoume,Bintangor,Pencil Cedar, Birch,Pine,etc Grade BB/BB, BB/CC,C/D
Fancy Plywood Surface	Teak, Sapele, Maple, Red Cherry, Red Oak, White Oak, Wenge, Beech etc Grade A / AA / AAA
Usage	For furniture, packing, decoration

MELAMINE PLYWOOD



Size	1220x2440mm
Thickness	3mm - 25mm
Core	Poplar, Combi, Hardwood
Glue	ENF,E0,E1, E2, MR,WBP
Surface Color	White, Wood Grain or other design as requested.
Usage	For furniture,decoration

EQUIPMENT ADVANTAGES
INDUSTRY 4.0 INTELLIGENT MANUFACTURING

The Xingang Super Strong Particle Board Project has introduced the first production line of Dieffenbach in Shandong Province, using Grubbas Super Particle Planer, Italian Par Super Particle Screen and Air Flow Selection Machine, Dieffenbach Online Gluing and Mixing System, Dieffenbach Surface Air Flow Paving Machine, and Dieffenbach Continuous Press System, all of which are in line with international standards and leading the industry's development.

Annual production of
300,000 m³
PARTICLEBOARD

**Dieffenbacher
continuous press system**



Annual production of

200,000 m³
FIBERBOARD

**Yalian Ultra High Speed
Continuous Flat Pressing**

The Xingang ultra-thin fiberboard has introduced advanced domestic and foreign equipment and control systems such as the Austrian Andritz thermal mill, high-precision dual control high-pressure gluing system, Yalian high-precision paving belt slow exhaust pre pressure system, and Yalian ultra-high speed continuous flat press, fully adopting fully automatic and international first-class equipment processes.



Annual production of
200,000 m³
PLYWOOD

Innovatively adopts Xingang Biomimetic Adhesive, achieving HENF heating-grade environmental protection, with waterproof performance far exceeding Grade II water resistance.



CERTIFICATES



EXHIBITION

