



**TIANMA LVJIAN**  
WORLDWIDE PLYWOOD EXPERTS



# BIRCH PLYWOOD

BIRCH FIVE-LAYER STRUCTURAL BOARD

QUALITY FOR UNIQUE SOLUTIONS



# Competitive advantages



High level of strength characteristics



Great strength-weight ratio



100% birch



Dimensional stability



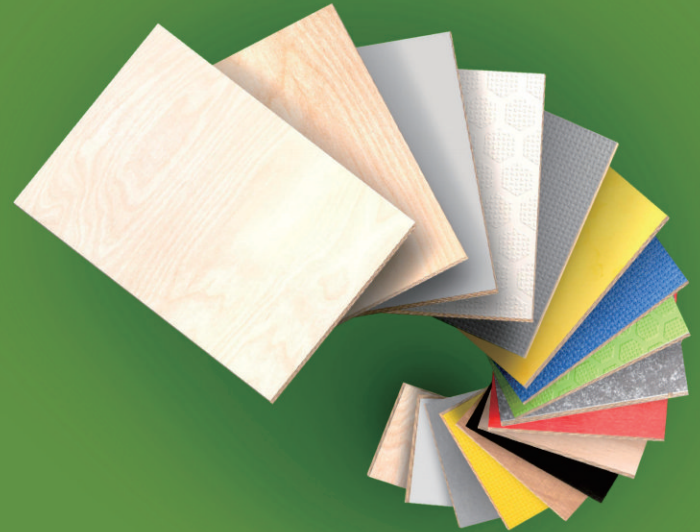
Plywood production to individual customer requirements



High quality of sanded surface



Thickness Tolerance  $\pm 0.2\text{mm}$



## MEETS STANDARDS

✓ CARB  
✓ ISO 14001

✓ EPA TSCA VI  
✓ CE

✓ FSC  
✓ ISO 9001

✓ DDS  
✓ FAP

✓ EUTR  
✓ Chinese Certificate Of Origin

# General specifications

Tianma Lvjian birch plywood is a wood panel 100% made from thin sheets of birch veneer. Birch plywood is highly demanded all over the world due to its excellent strength and rigidity related properties, good resistance to humidity, nice and smooth face veneer.

Type of veneer	100% birch	Size, ft - mm	
Types of plywood	Exterior sanded or coated birch plywood	4x8x4	1220x2440x1220 1250x2500x1250
Textures of coating	Smooth, Wire, Hexa. Other textures available upon request	5x10	1500x3000, 1525x3050
Density of plywood	640-700 kg/m <sup>3</sup>	4x10	1220/1250x3000/3050
Thickness	4-40 mm	5x8	1500/1525x2400/2440/2500
Formaldehyde Emission level	EPA TSCA VI & CARB ULEF  Meets German requirements of formaldehyde limitation	5x5	1525x1525
		7x13	2135x3965
		Other sizes available upon request	

## THICKNESSES OF TIANMA LVJIAN PLYWOOD

Number of Plies	3	4	5	6	7	9	11	13	15	17	19	21	25	29
Thickness (mm)	4	5	6,0 6,5	8	9	12	15	18	21	24	27	30	35	40

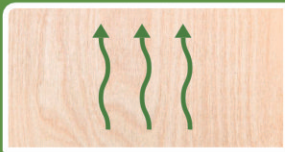


Thickness (mm)

← Plies

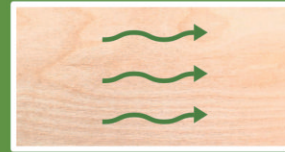
# Types and grades

## CROSS GRAIN PLYWOOD



Cross grain plywood is plywood in which the grain of the outermost plies is perpendicular to the longest side of the plywood sheet.

## LONG GRAIN PLYWOOD



Long grain plywood is plywood in which the grain of the outermost plies is parallel or nearly parallel to the longest side of the plywood sheet.

## GRADES OF FACE SIDE

EBS

BB

CP

C

High quality ←

→ Quality reducing



**Practically without defects:** some healthy inter-grown knots up to 25 mm in diameter, insignificant brown veins and dropped out knots up to 5 mm in diameter are admitted.



**Repairing of the surface is admitted.** Knots with size of more than 25 mm and visible defects are repaired with veneer patches.



**Flat surface without restrictions** on discoloration and number of patches.



**Defects of processing and structure of wood are admitted.** High-quality agglutination is guaranteed.

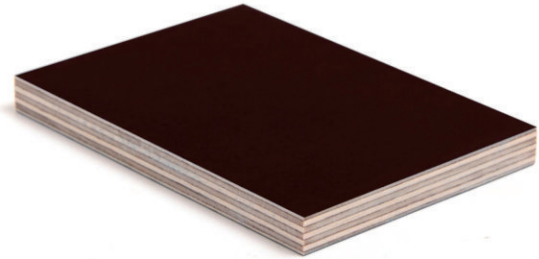
## Product range

### Raw



**Sanded** long or cross grain birch plywood, non-overlaid. Widely used in all spheres where the combination of high strengths of material and **light weight** is demanded.

### Film Faced



Hexa



Wire

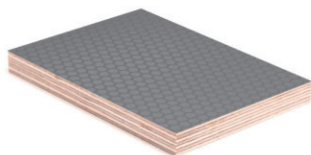


Smooth

**Coated** with phenolic film of 120 - 220 g/m<sup>2</sup> density. Edges are sealed with **water-resistant** paint. Individual **LOGO printing** is available upon request.

# Product range

## Tianma Lvjian Anthracite



Hexa



Wire



Smooth



### Saturated grey

Excellent decorative properties



### Alkali resistance

Easy cleaning with the use of detergents



### Color stability

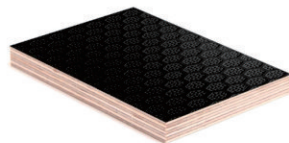
and resistance to UV rays



### 50% Lower water absorption\*

\* compared to standard phenol films

## Tianma Lvjian Sapphire



Hexa



Wire



### Reinforced veneer configuration



### High alkali resistance



### Low formaldehyde emission

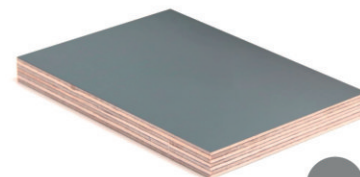


### High surface wear resistance



### Improved slip resistance

## Tianma Lvjian Plyform



Smooth

### REPLACING THE STANDARD

Finally a different color to offer at competitive price

### THE COLOR ADVANTAGE

No color transfer to the concrete



### Improvements on the surface

Improved water resistance. Less rippling.



### Work environment

Lower temperature on the construction site



**Durable** Withstands the pours needed to finish the construction cycle

# Product range

## Tianma Lvjian Ecofloor



CP/CP, BB/CP  
and higher



**Thickness** tolerance of +/-0,2 mm



6-9% moisture content



**100% thickness** control  
of all products



**Improved** delamination resistance

## Tianma Lvjian ClearPly



**TRANSPARENT**  
invisible film preserving the pure  
beauty of birch



**OPAL WHITE**  
semi transparent with sheer white tint to  
brighten the structure of wood



**Wear-resistance**



**Durability**



**Extra protection**

## Finished Product Display





# Product range

## Birch Activated Carbonized Structural Board

Birch Activated Carbonized Structural Board provides excellent smoothness and stability with high cost performance Raw materials are transparent not only environmentally friendly but also reliable.



1. Upper and lower 4mm/6mm birch plywood
2. Surface grade BB grade natural wood grain, no patch defect



1. The core material is carbonized to control moisture and stability
2. The structural features and internal horizontal stripes further enhance stability



1. The glue is the brand of Finland Tyre
2. Formaldehyde test results meet the Japanese F4 Environmental star and JARS standards
3. All The active carbon structural panels are made of high quality imported pure wood materials



Surface Birch Plywood : 4mm or 6mm

# Our Advantage

## Horizontal Striation Structure Exclusive Invention and Utility Patent

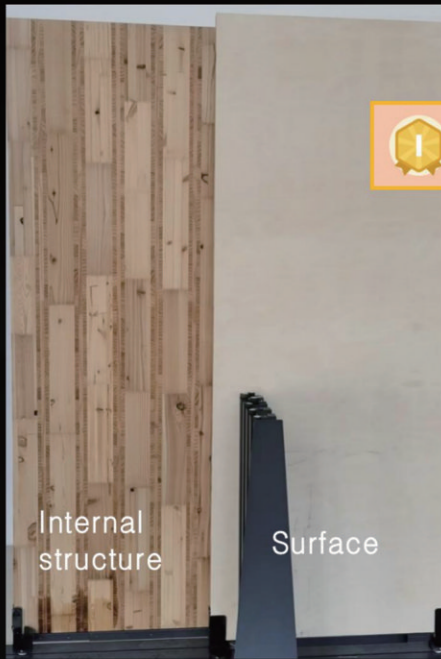


- Greatly improved the hardness and stability of the plate

- The core material is imported cedar
- Low moisture content of wood
- Improved the durability of the plate
- Better anticorrosion and moisture-proof function.



## Carbide core material



65,000m<sup>3</sup>

Annual Capacity (Birch Activated Carbonized Structural Board)

0.27%

Dry Shrinkage Wet Expansion Rate

0.20%

Buckling

0.001mg/m<sup>3</sup>

Formaldehyde Emission\* (Detection from Chinese Academy of Forestry)

Our advantage, Why us?

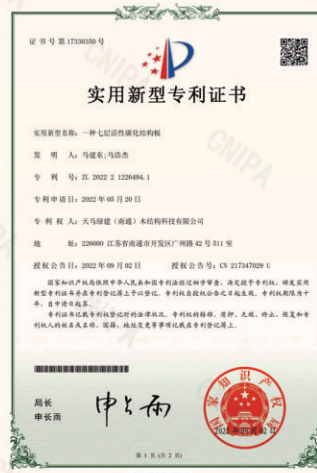
# Birch Activated Carbonized Board Invention Patent Certificate



**Invention Patent Name: A Production Process of Carbonized Structural Plate**



**Utility Model Patent Name: A High-strength Aluminum-wood Group Frame Structure Board**



**Utility Model Patent Name: A Seven-layer Activated Carbonized Structural Board**



**Utility Model Patent Name: An Activated Carbonized Structural Board**

# TYPES OF PACKAGE OF TIANMA LVJIAN PLYWOOD

## PARAMETER

S size 1 2 2 0 x 2 4 4 0 , HEIGHT OF CRATE – 400mm														Size 1525 x 2500 , HEIGHT OF CRATE – 400mm																									
Thickness, mm	3	4	6	6.5	8	9	12	15	18	21	24	27	30	35	40	3	4	6	6.5	8	9	12	15	18	21	24	27	30	35	40									
Sheets per crate	130	100	65	60	50	44	33	26	22	19	16	15	14	11	10	130	100	65	60	50	44	33	26	22	19	16	15	14	11	10									
Volume of crate, m3	1.16	1.19	1.16	1.16	1.19	1.18	1.18	1.16	1.18	1.19	1.14	1.21	1.25	1.15	1.19	1.49	1.53	1.49	1.49	1.53	1.51	1.51	1.49	1.51	1.53	1.47	1.55	1.61	1.47	1.53									
Weight (netto) of crate raw plywood, kg	828	848	828	780	860	818	805	784	789	797	773	815	831	786	832	1064	1092	1064	1064	1092	1078	1078	1064	1078	1092	1050	1107	1150	1050	1092									
Weight (netto) of crate F/F plywood, kg	878	898	875	823	896	850	829	802	804	810	784	826	842	794	840	1128	1158	1128	1128	1158	1143	1143	1128	1143	1158	1113	1173	1219	1113	1158									
S size 1 2 5 0 x 2 5 0 0 , HEIGHT OF CRATE – 400mm														Size 1525 x 1525 , HEIGHT OF CRATE – 600mm																									
Thickness, mm	3	4	6	6.5	8	9	12	15	18	21	24	27	30	35	40	3	4	6	6.5	8	9	12	15	18	21	24	27	30	35	40									
Sheets per crate	130	100	65	60	50	44	33	26	22	19	16	15	14	11	10	195	150	100	92	75	67	50	40	33	29	25	22	20	17	15									
Volume of crate, m3	1.22	1.25	1.22	1.22	1.25	1.24	1.24	1.22	1.24	1.25	1.2	1.27	1.31	1.2	1.25	1.36	1.4	1.4	1.39	1.4	1.4	1.4	1.4	1.38	1.42	1.4	1.38	1.4	1.39	1.4									
Weight (netto) of crate raw plywood, kg	869	891	869	819	903	859	845	823	828	836	811	856	873	825	874	965	991	995	935	1008	973	953	942	924	948	944	934	928	950	976									
Weight (netto) of crate F/F plywood, kg	918	941	918	864	940	892	870	842	844	851	823	867	883	834	881	1015	1041	1051	986	1050	1011	981	965	943	964	958	946	939	959	984									
Size 1525 x 3050 , HEIGHT OF CRATE – 400mm														Birch Anti-deformation Board , HEIGHT OF CRATE – 1000mm																									
Thickness, mm	3	4	6	6.5	8	9	12	15	18	21	24	27	30	35	40	2440*1220*182800*1220*182440*1220*222800*1220*22 2440*880*45 2440*880*45, HEIGHT – 400mm																							
Sheets per crate	130	100	65	60	50	44	33	26	22	19	16	15	14	11	10	55				55				46				46				22				9			
Volume of crate, m3	1.81	1.86	1.81	1.81	1.86	1.84	1.84	1.81	1.84	1.86	1.79	1.88	1.95	1.79	1.86	2.95				3.39				3.02				3.46				2.13				0.87			
Weight (netto) of crate raw plywood, kg	1293	1343	1293	1219	1343	1278	1258	1224	1232	1245	1207	1273	1299	1228	1300	1500				1898				1782				2041				1065				435			
Weight (netto) of crate F/F plywood, kg	1366	1399	1366	1286	1399	1328	1295	1254	1257	1266	1225	1290	1315	1241	1312	Surface 4mm				Surface 4mm				Surface 6mm				Surface 6mm				Surface 6mm				Surface 6mm			
Size 1500 x 3000 , HEIGHT OF CRATE – 400mm														Contacts																									
Thickness, mm	3	4	6	6.5	8	9	12	15	18	21	24	27	30	35	40	Address: No. 82, Jianghai Road, Development Zone, Nantong City, Jiangsu Province, China																							
Sheets per crate	130	100	65	60	50	44	33	26	22	19	16	15	14	11	10	Tel: +86 13240800327																							
Volume of crate, m3	1.76	1.8	1.76	1.76	1.8	1.78	1.78	1.76	1.78	1.8	1.73	1.82	1.89	1.73	1.8	Whatsapp: +86 1324080327																							
Weight (netto) of crate raw plywood, kg	1251	1204	1251	1179	1300	1237	1217	1185	1192	1204	1168	1232	1257	1188	1258	Email: nelma@tianmalvjian.com																							
Weight (netto) of crate F/F plywood, kg	1322	1225	1322	1244	1354	1284	1253	1213	1216	1225	1185	1248	1272	1200	1269	Website: tianmalvjian.com																							