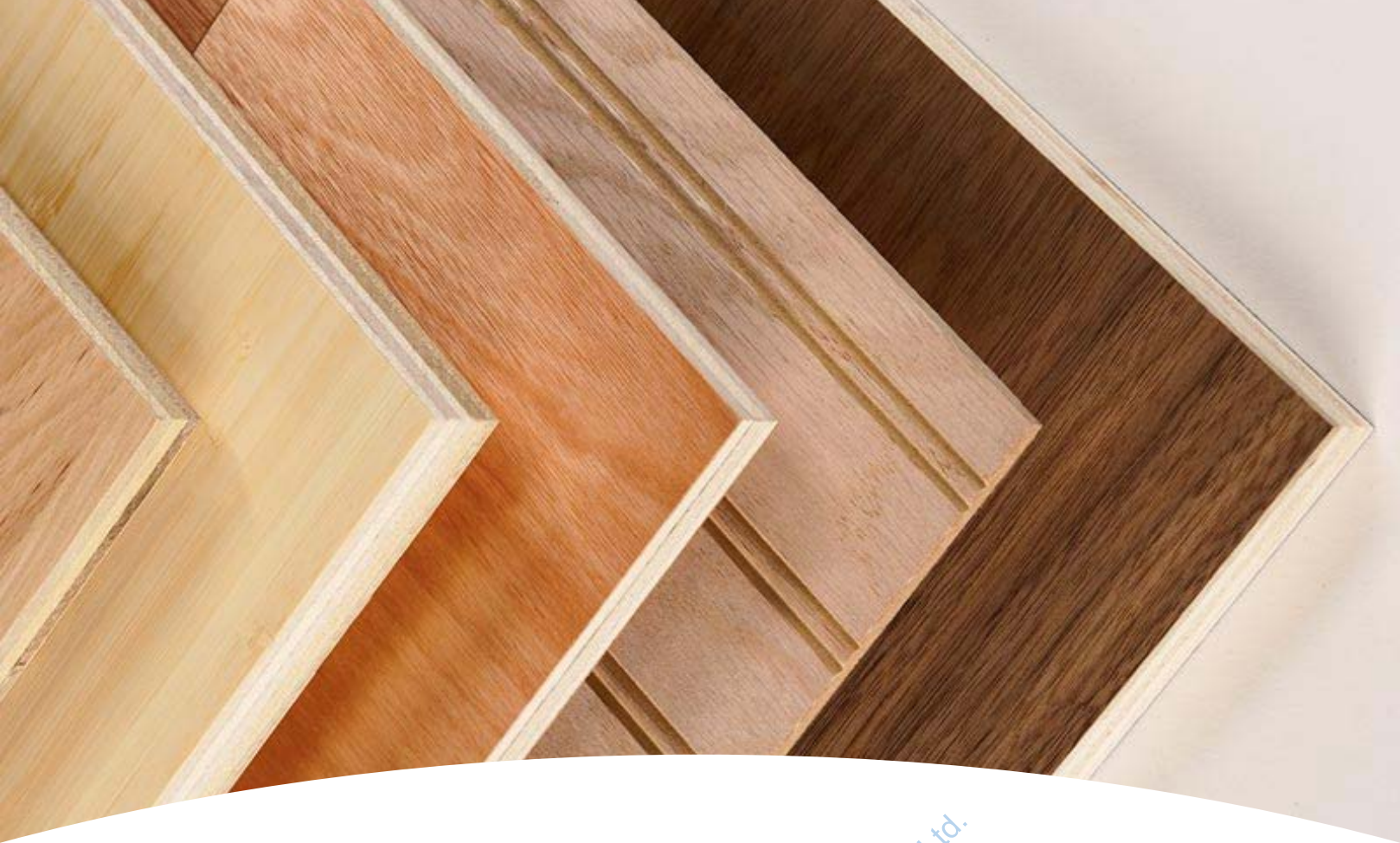




Shanghai Qin Ge Ceramic & Building Co., Ltd.

PIANOPLYWOOD

CONSTRUCTION WOODEN PANEL

CHINESE BUILDING MATERIAL EXPERT, ONE STOP SERVICE PROVIDER



PIANOPLYWOOD



WA BUINESS

WWW.PIANOPLYWOOD.COM

ABOUT US



PIANOPLYWOOD

Our company's main products include Plywood, Film-faced Plywood, LVL, 3PLY, Blockboard, H20 Beam, Timber Wall panel, etc.

Applications: housing construction, building construction, bridge engineering, cement building formwork, home decoration and furniture, shopping shelves, packaging materials, handicraft supplies, container floors, stage formwork, outdoor construction, etc.



Eco-Friendly and Renewable



Resistance to Decay and Mold



Water Bolied Proof



10-year warranty



CE



ISO 9001



Shanghai Qin Ge Ceramic & Building Co., Ltd.

CONSTRUCTION WOODEN PANEL

PRODUCT SPECIFICATION INTRODUCTION

CONTENTS

01	／	FILM FACED PLYWOOD
02	／	LEONKING 3 PLY SHUTTERING PANEL
03	／	F17 LAMINATED VENEER LUMBER
04	／	H20 BEAM
05	／	TIMBER
06	／	CDX PLYWOOD
07	／	ANTI SLIP FILM FACED PLYWOOD
08	／	CIRCULAR FILM FACED PLYWOOD
09	／	PLASTIC FILM FACED PLYWOOD
10	／	MDO FILM FACED PLYWOOD
11	／	OSB-ORIENTED STRAND BOARD
12	／	PRESSURE TREATED TIMBER



FILM FACED PLYWOOD

PIANOPLYWOOD



PRODUCT CERTIFICATE



Casting up to 30 times



Free samples&Prompt delivery



Eco-friendly&Visualization



Customized size&Thickness



Prov. cust. logo&Design



High standards&Quality

FORMAT SIZE	1220 x 2440 mm
THICKNESS	6 / 9 / 12 / 15 / 18 / 21 mm
MATERIAL	Poplar / Eucalyptus / Birch / Pine / Hardwood / Finger joint
STANDARD	BS EN 314-2 / BS EN 315 / BS EN 316 / BS EN 636
DENSITY	500-700 kg/m ³
MOISTURE CONTENT	8%-12%



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FILM FACED PLYWOOD



DOMA

EUROTEGO

LEONKING



INSTRUCTIONS FOR USE AND MAINTENANCE OF FORMWORK PANELS

• USAGE

The formwork panels are mostly used in construction for concrete shuttering. Before usage, the user/contractor should check whether the panel surface quality is sufficient for the desired concrete surface quality. As the formwork panels are made of solid wood, wood texture can be visible on the concrete surface. Therefore, the formwork panel producer does not undertake any responsibility for the quality of the concrete surface. After use, traces of the edge protective varnish on the concrete surface may also be visible.

The panels are supported at intervals as specified in the diagram of intervals in the producer's brochure.

When assembling or disassembling formwork panels, utmost attention should be paid to minimising the damage to the panels through the use of saws, nails or other fasteners. You should also be careful not to damage the surface of the boards with a hammer or sharp objects. Such damages inevitably affect the quality of the concrete surface.

Before applying concrete, the panels should always be treated with formwork oil and thoroughly moistened/sprinkled with water in order to minimise the risk of the concrete sticking to the panels. You should be very careful when removing the shuttering, especially if the panels are nailed, screwed or fastened in any other way. It is essential to prevent the falling of the panels from greater heights and any resulting damage which might occur.

• MAINTENANCE

After use, the panels should be cleaned of all residues and placed on a flat surface. For the protection of the shuttering, a paraffin paste or formwork oils should be used in accordance with the producer's instructions. The panels should be kept in a covered and shady place. If stored outdoors, the panels should be covered with a sheet (a tarpaulin plane) protecting them against harmful weather conditions (sun, rain). If the panels are exposed to the sun, splits and/or cracks may appear on the outer layer. Such panels must be properly moistened with water before next use!

Apart from that, fading (discolouration) may appear on the surface protection, which, however, does not significantly affect the functionality of the panel. Due to the components and the colours of wood, the panels may stain brownish when exposed to rain.

• WARNING

In extreme weather conditions (significant deviations from normal humidity and temperature, or longer periods of dry and hot weather), you should take extra care of the shuttering, mostly making sure that the panels are not exposed to the heat of the sun for longer periods. Should you fail to do so, longitudinal cracks on the outer layer may appear, which significantly affect the lifetime of formwork panels and the quality of the concrete surface. Such panels should be properly moistened with water before use, otherwise, they might be permanently damaged due to the intrusion of the concrete emulsion into the cracks!

Moreover, wooden formwork panels contain certain wood components, such as tannic acid or resins, which might cause stains on the concrete surface.



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PIANOPLYWOOD



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3 PLY SHUTTERING PANEL

CONCRETE FORMWORK SHUTTERING PANELS

The largest range of products, the largest choice

Our sorting diversity can satisfy any customer need: **21 mm and 27 mm** shuttering panels with and without galvanized edge protection (Metal or plastic), 27 mm shuttering panels with or without edge band, solid timber profiles with edge protection in dimensions of 20 mm, all in big and small size. The application possibilities go from ceiling boards to wall, bridge and tunnel formworks to work platforms.



3 Ply Shuttering Panel



3 Ply Shuttering Panel with **Metal Corners**



3 Ply Shuttering Panel with **Plastic Endling**



3 Ply Shuttering Panel with **Metal Endling**



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LEONKING 3 PLY SHUTTERING PANEL

PIANOPLYWOOD

PRODUCT CERTIFICATE



Casting up to 20 times



Free samples&prompt delivery



Eco-friendly&visualization



Customized size



High standards



High quality

FORMAT SIZE	3000 × 500 × 21 / 27 mm , 2000 × 500 × 21 / 27 mm
LENGTH	1000 / 1970 / 2000 / 2500 / 2970 / 3000 mm
WIDTH	250 / 450 / 500 / 1000 mm
THICKNESS	21 / 27 mm
MATERIAL	Spruce / Fir /Pine
STANDARD	EN 13353 / EN 12775 / EN 314-2

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3 PLY SHUTTERING PANEL

TECHNICAL DATA

Product	3-ply yellow concrete formwork shuttering panel coated with melamine resin that allows a resistant and smooth surface		Leonking panel 21 mm Leonking panel 27mm
Wood species	Spruce/Fir/Scotch Pine/Radiata Pine		
Wood moisture	12% ± 2%		
Weight	12 kg/m2 (27 mm) / 10kg/m2 (21 mm)		
Formats (mm)	1000x500 - 1500x500 - 2000x500 - 2500x500 - 3000x500		
Thickness (mm)	21, 27		
Surface protection	Highly resistant melanine coating, extremely smooth surface		
Edge seal	Water repellent edge formork finish, yellow ,red		
Ending	without or Metal or Plastic		
Packaging	Fir:21mm/120pcs package,27mm/96pcs package;Spruce:21mm/110pcs package,27mm/88pcs package		
Design values	Mechanical properties	21 mm	27 mm
	Minimal value	40N/mm2	40N/mm2
	Modulus of elasticity (mean value)	11000-12000 N/mm2	11000-12000 N/mm2
Note	The values are calculated with a wood moisture of 12%. With heavy moisture penetration up to fiber saturation point, the values for bending strenght and flexural modulus of elasticity may be up to 30% lower		

		L							
d=21 mm		0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
q	5 kN/m ²	0.11	0.17	0.26	0.38	0.54	0.75	1.00	1.32
	10 kN/m ²	0.21	0.34	0.52	0.77	1.08	1.49	2.01	2.65
	15 kN/m ²	0.32	0.51	0.78	1.15	1.63	2.24	3.01	3.97
	20 kN/m ²	0.43	0.69	1.05	1.53	2.17	2.99	4.02	5.30
	25 kN/m ²	0.54	0.86	1.31	1.91	2.71	3.74	5.02	6.62
	30 kN/m ²	0.64	1.03	1.57	2.30	3.25	4.48	6.03	7.95
	35 kN/m ²	0.75	1.20	1.83	2.68	3.80	5.23	7.03	9.27
	40 kN/m ²	0.86	1.37	2.09	3.06	4.34	5.98	8.04	10.59

q = load
(N/m²) L = span (m)
d = 21 mm
E = 10000N/mm² of extrapanel
with d=21 mm
K = 0.646 deformation factor
contingent on number of fields
for constant load

		L							
d=27 mm		0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
q	5 kN/m ²	0.05	0.08	0.12	0.18	0.26	0.35	0.47	0.62
	10 kN/m ²	0.10	0.16	0.25	0.36	0.51	0.70	0.95	1.25
	15 kN/m ²	0.15	0.24	0.37	0.54	0.77	1.05	1.42	1.87
	20 kN/m ²	0.20	0.32	0.49	0.72	1.02	1.41	1.89	2.49
	25 kN/m ²	0.25	0.40	0.62	0.90	1.28	1.76	2.36	3.12
	30 kN/m ²	0.30	0.48	0.74	1.08	1.53	2.11	2.84	3.74
	35 kN/m ²	0.35	0.57	0.86	1.26	1.59	2.46	3.31	4.36
	40 kN/m ²	0.40	0.65	0.98	1.44	2.04	2.81	3.78	4.98

q = load
(N/m²) L = span (m)
d = 27 mm
E = 10000N/mm² of extrapanel
with d=27 mm
K = 0.646 deformation factor
contingent on number of fields
for constant load

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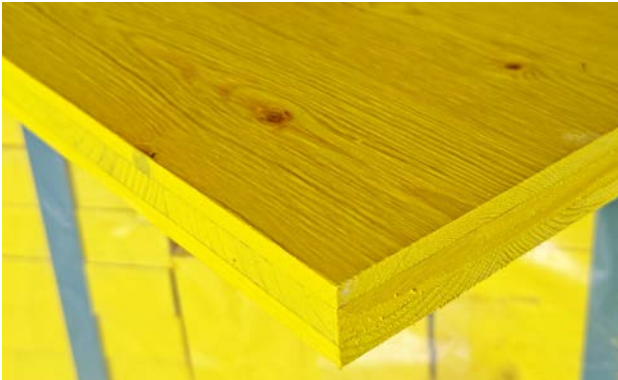


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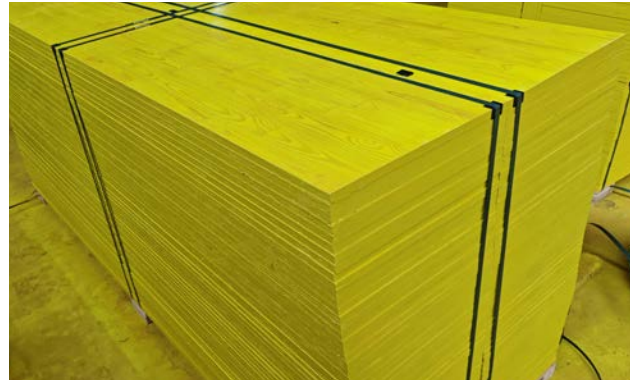
3 PLY SHUTTERING PANEL

3 PLY SHUTTERING PANEL CORE

CORE TYPE - GRADE



GRADE S Spruce



GRADE A Scotch Pine



GRADE B Fir



GRADE C Radiata Pine

*Product grades (Grade S/A/B/C) are determined based on the following Key Performance Indicators: Structural strength, Weather resistance, Stability, Water absorption and Expansion Rate, Corrosion resistance, Demolding performance, Bonding firmness, Flatness, Service life, Wood species selection differentiation.

*The only advantage of **Knot-free** wood in construction lies in its appearance, merely serving an aesthetic purpose. There is **no difference** in the core performance between wood with Knots and without Knots.

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PIANOPLYWOOD



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PRODUCT COMPARISON

Meticulous craftsmanship and exquisite quality stem from everyone's dedication. We strictly control every production process and conduct comprehensive quality inspections to pursue flawlessness in every product.



PK



✓ **CORE MATERIAL**

Fresh, KD, Laminated, Grade FAS

✗ **CORE MATERIAL**

Molds & recycled, AD, Laminated, Grade C



PK



✓ **STRUCTURE**

3 Layers, Natural solid wood surface

✗ **STRUCTURE**

Not 3 ply,
but 3 ply + Rotary radiator pine veneer Face & Back
It is easy to be peel off and attached to the wall, big disaster while demolding.

PRODUCT COMPARISON

Meticulous craftsmanship and exquisite quality stem from everyone's dedication. We strictly control every production process and conduct comprehensive quality inspections to pursue flawlessness in every product.

WOOD



Why is spruce = **Grade S**, Scotch pine & Mongolian pine = **Grade A**, Chinese fir = **Grade B**, and Radiata pine = **Grade C**?

The most important technical indicators and characteristics for construction concrete formwork are: **strength, bending strength, bonding strength, demolding performance, water resistance, stability and weather resistance.**

Based on the same adhesive equipment and technical processes, different wood species result in products with significantly different quality levels.

Comparison and Selection Report of Construction shuttering panel plywood Properties

一、Basic Properties Comparison of Four Wood Species

Performance Indicator	European Spruce	Scotch Pine	Chinese Fir	New Zealand Radiata Pine
Density (kg/m ³)	380 - 440	420 - 480	350 - 380	350 - 400
Decay Resistance	Medium (requires treatment)	Excellent (Naturally decay-resistant)	Poor (Prone to mold)	Poor (Prone to mold and insect attack)
Bending Strength (MPa)	75 - 87	80 - 90	55 - 60	60 - 70
Fiber Length (mm)	3.5 - 5.0 (Fine, long, uniform)	2.0 - 3.5 (Straight grain)	1.8 - 2.5 (Short, thick)	2.0 - 3.0 (Thick, short)
Water Absorption & Expansion Rate (%)	8 - 10	7 - 9	12 - 15	15 - 18
Workability	Excellent (Smooth cutting)	Good (Resin can stick to tools)	Medium (Prone to burrs)	Poor (Prone to cracks and marks)

PRODUCT COMPARISON

Meticulous craftsmanship and exquisite quality stem from everyone's dedication. We strictly control every production process and conduct comprehensive quality inspections to pursue flawlessness in every product.

WITH KNOTS / KNOTS FREE?



KNOT-FREE

WITH KNOTS

Both knot-free and with knots are available from pianoplywood

But

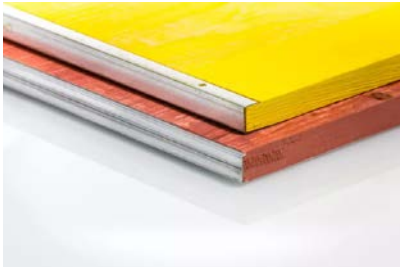
1. Construction concrete formwork is for temporary use, so with knots or knot-free is neither required nor relevant.
2. 3-ply shuttering panels (used by leading brands DOKA & PERI) adopt knotted spruce, and there is no standard grading by knot presence or absence.

Complete Service:

We provide one-stop service from standard panels to value-added products like corner protectors and end caps, and offer customized solutions like UV-protective packaging based on client storage conditions. We are committed to leveraging our over 20 years of expertise to provide tailored solutions that best fit each client's project needs.

3 PLY SHUTTERING PANEL

FORMWORK PANEL WITH METAL ENDING



Solid Wood Panels

Joint-free surfaces for visually beautiful concrete quality. The surface finish of our solid wood panels increases the life duration and allows an easy stripping and cleaning. The smooth surfaces give furthermore visually beautiful concrete quality and joint-free surfaces. The edge protection with C-profile makes solid wood panels more durable.

PRODUCT ADVANTAGES



Accurate & Stable Dimensions



With metal ending



High structural strength



Long service life



Environmental Protection



Waterproof

Long service life

PIANO 3-layered shuttering panels impress thanks to the high stability and dimensional accuracy. Both longitudinal external layers and the diagonal central layer are glued between them and water-resistant. Swelling or shrinking are almost excluded thanks to this structure. Optional edge protection and a high quality waterproofing impregnation further increase the durability and make stripping and cleaning easy.



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PIANOPLYWOOD



WA BUSINESS

3 PLY SHUTTERING PANEL

FORMWORK PANEL WITH PLASTIC ENDING



Customized End color & LOGO



With Plastic ending



Light weight



High structural strength



Thermal efficiency



Waterproof

PACKING EFFECT



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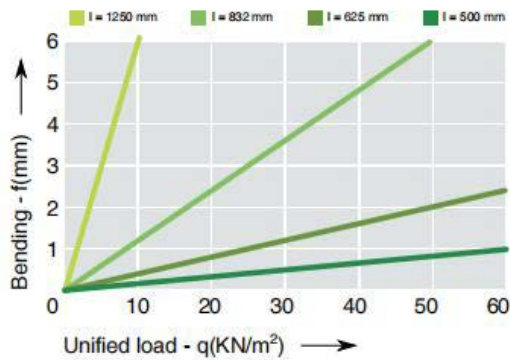
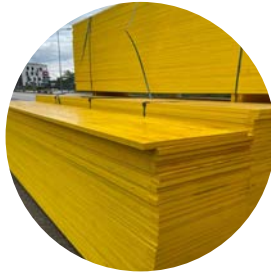
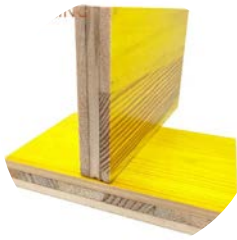


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3 PLY SHUTTERING PANEL



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3 PLY SHUTTERING PANEL

LEONKING 3 PLY SHUTTERING PANEL ACCESSORY

LEONKING

Tie rods, formwork clamps, tie-brackets and ties for pillar casting, nuts and cones.
Find the solution you need. Or discover new ones.



Formwork clamp
600-800mm weight 7,20kg



Iron spacers for wooden panels
100-1200mm R 70kg/mm2



Helicoidal stanchion
500mm weight 0,90kg



Stanchion pressed hook
500mm weight 0,85kg
1000mm weight 1,60kg
1500mm weight 2,40kg



Pre-galvanised U-shaped element
630mm weight 1,00kg n°2 holes
1130mm weight 1,80kg n°3 holes



Tie-brackets for pillar
150-450mm 500-950mm
weight 2,35kg



Ties for pillar
200-400mm weight 9,30kg
250-500mm weight 10,40kg
250-600mm weight 11,90kg
400-800mm weight 16,50kg
600-1000mm weight 28,50kg



Galvanised wedge
weight 0,115kg



Wedge for ties
weight 0,40kg



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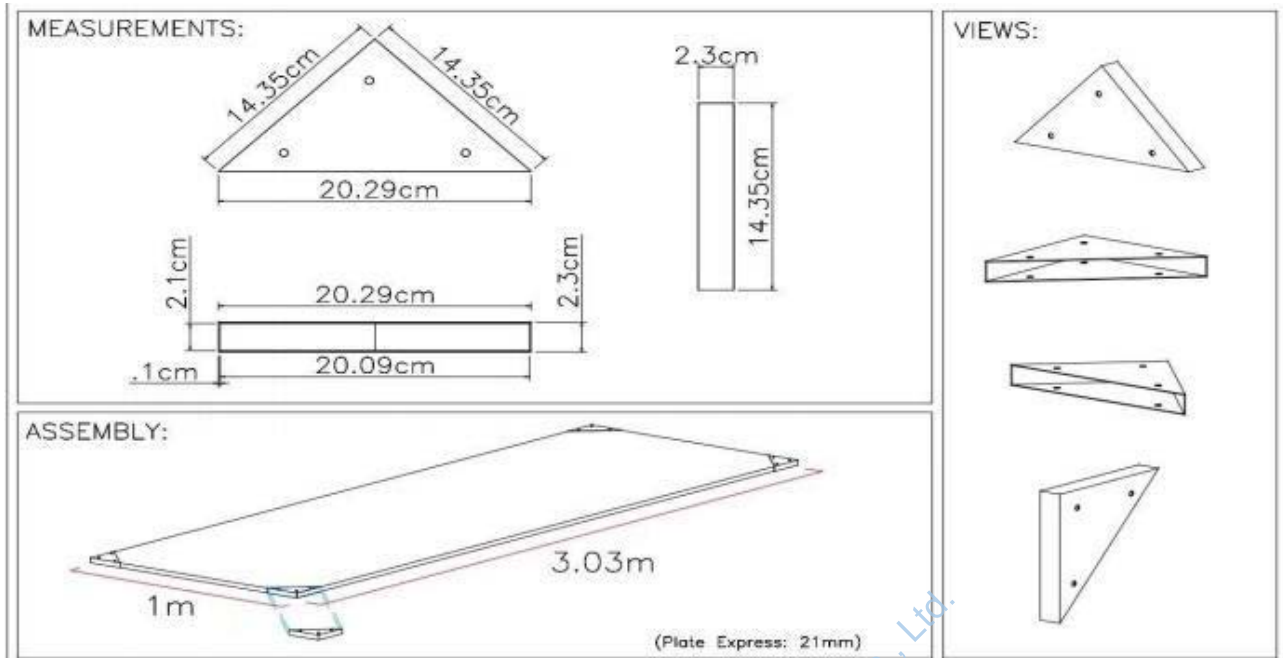


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3 PLY SHUTTERING PANEL



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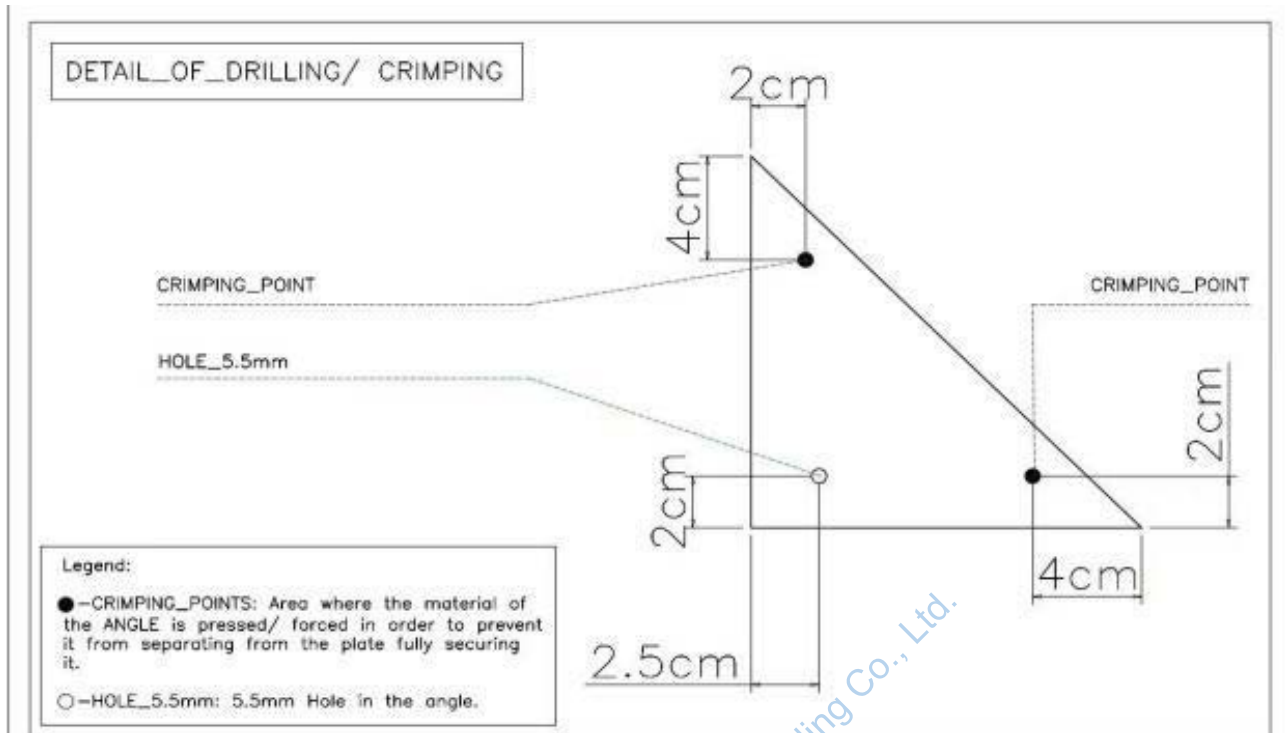
LEONKING www.pianoplywood.com E-mail: RobertWang@pianoplywood.com	material	Q235	products	corner protectors
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	Tolerance	+/-0.2mm	Standard	U12352
	Size	14.35*14*35*20.29	Page	1/4
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3 PLY SHUTTERING PANEL



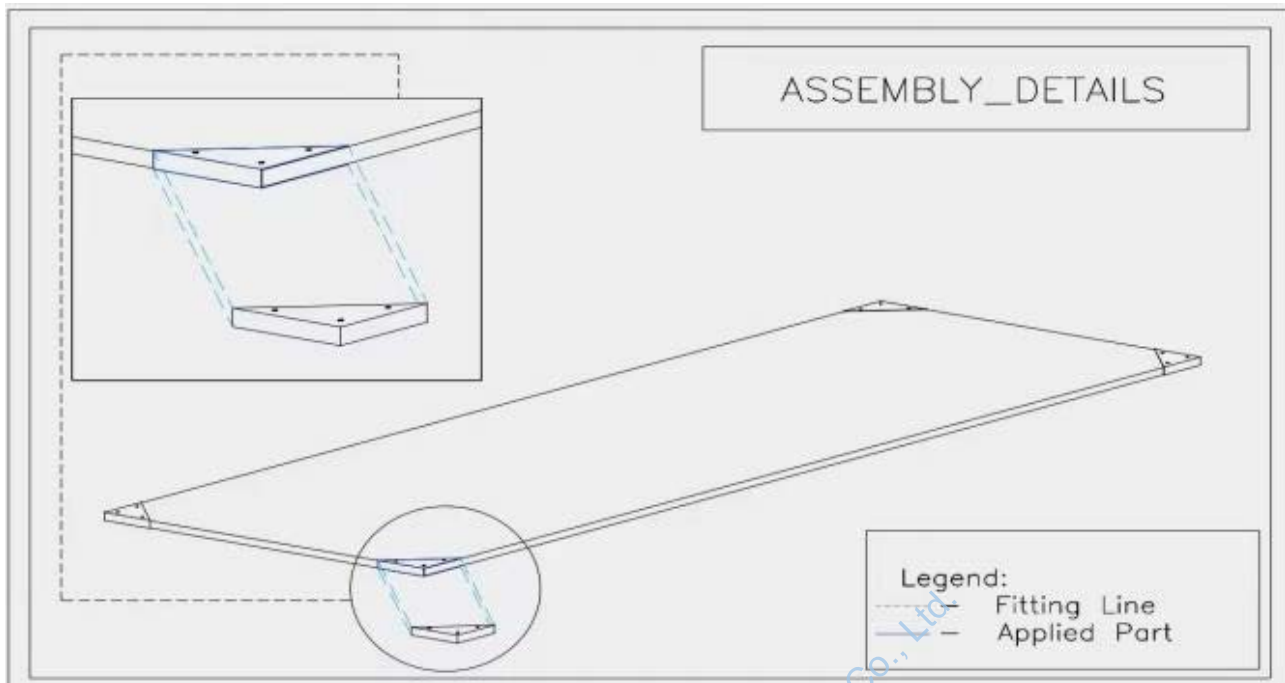
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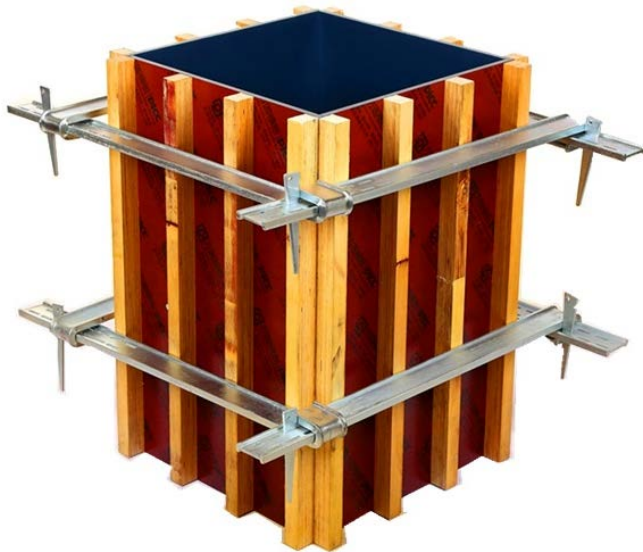
ADJUSTABLE COLUMN CLAMPS

PRODUCT DESCRIPTION

ADJUSTABLE COLUMN CLAMPS

LEONKING

Adjustable Column Clamps is an innovative steel formwork clamp, which is applicable to the reinforcement of cast-in-situ reinforced concrete square column formwork commonly used in engineering construction. Such as mall, hospital, warehouse ...



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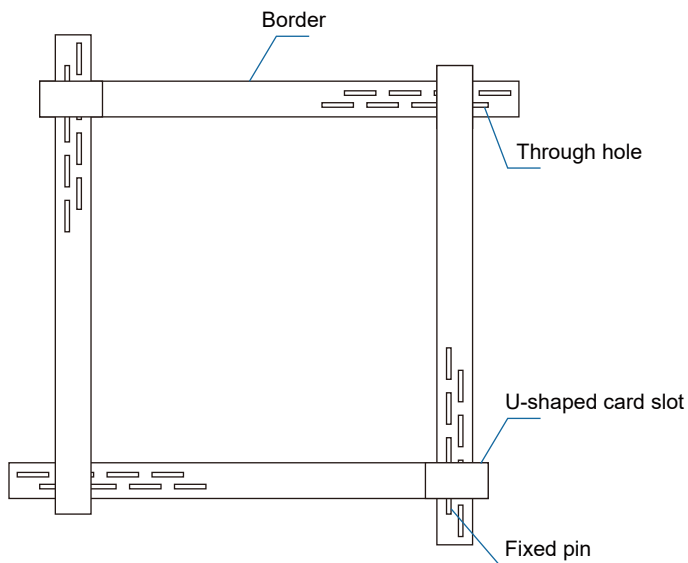
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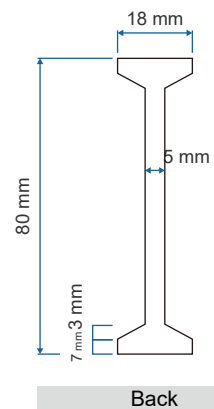
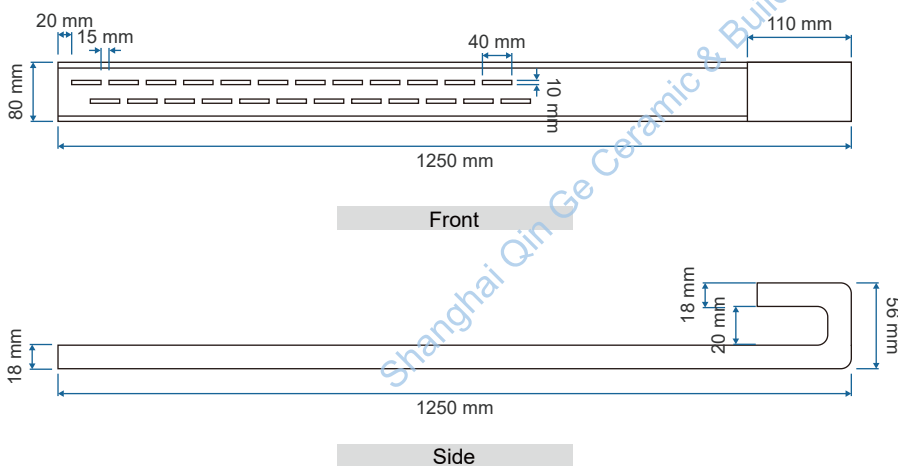
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ADJUSTABLE COLUMN CLAMPS

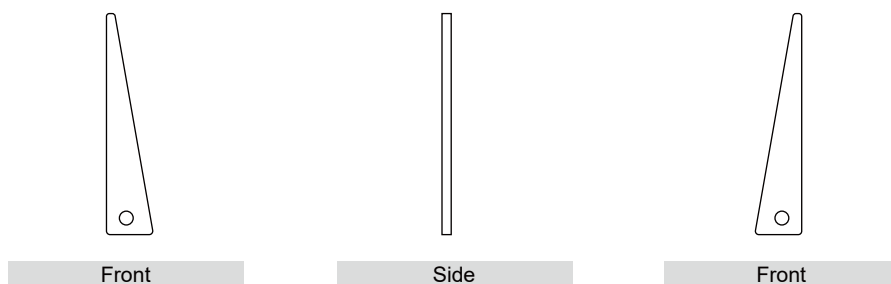
ADJUSTABLE COLUMN CLAMPS



SQUARE POST BUCKLE



STEEL WEDGES



ADJUSTABLE COLUMN CLAMPS

INSTALLATION INSTRUCTIONS



STEP 1

Assemble the four panel pieces using the slots located at the panel edges. Secure the corner of the column formwork with the adjustable corner clamps, ensuring that all clamps are positioned at the same height.



STEP 2

Attach the column clamps to the corner clamps. Fasten the head of each column clamp into the bent end of the corresponding clamp. Ensure the column clamp is tightly aligned and flush with the beam.



STEP 3

Insert the wedge pins into the column clamps and secure them by tapping with a hammer. Adjust and measure the spacing of the column clamps to maintain a consistent height across all units. Proceed to install the remaining panels and column clamps following the same steps.



STEP 4

Tap the end of the wedge pins with a hammer to release them. Remove the steel plates and disassemble the clamp assembly by hand.



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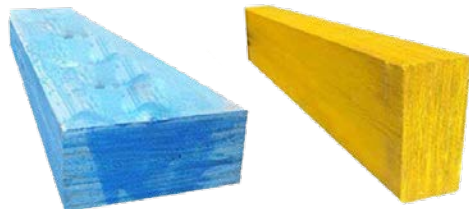
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PIANOPLYWOOD



WA BUSINESS



PRODUCT CERTIFICATE



Corrosion resistance



Free samples & prompt delivery



Eco-friendly & visualization



Customized size & thickness



Waterproof



Insect resistance

FORMAT SIZE	2700 / 3600 / 4500 / 5400 / 6000 / 7200 / 9600 / 12000 mm
LENGTH	Up to 12000 mm
WIDTH	35 / 45 / 63 / 70 / 90 / 140 / 240 mm
THICKNESS	35 / 45 / 63 mm
STANDARD	AS NZS 4357 / AS NZS 1080.1 BS EN 24829 / BS EN 14279
MATERIAL	Larch / Spruce / Radiata pine
MOISTURE CONTENT	8%-12%



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H20 BEAM

PIANOPLYWOOD

PRODUCT CERTIFICATE



Environmentally friendly



Free samples&prompt delivery



Visualization



Customized size&thickness

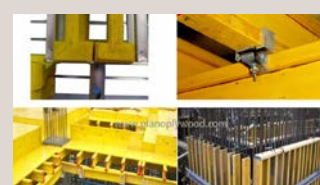


High standards



High quality

FORMAT SIZE	200 × 80 × 40 × 27 mm
SIZE	Flange size: 40 × 80 mm × 3000-5900 mm Web size: 27 / 90 × 120 mm × 3000-5900 mm
MATERIAL	Flange: sawed pine / spruce , LVL / timber Web: birch / poplar / larch , plywood
STANDARD	EN 13377 / EN 1993-1 / EN 10034
DENSITY	5.3-5.4 kg/m ³
MOISTURE CONTENT	8%-12%



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PIANOPLYWOOD



WA BUINESS

FORMWORK **H20** BEAM

LKH20
E-Ply Piano LKH20

LEONKING LK20 and E-Ply Piano H20 formwork beams are solid web girders and subject to supervision level super a according to EN13377 & GB/T 28985-2012.

Monitoring and certification by material research laboratory at SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch and wood products quality & inspection center of state forestry and grasslang Adinstration (Nanjing).

Product range

Lengths:180,195, 250, 265, 275, 290, 300, 330, 360, 390, 450, 490, 590 cm

E-Ply Piano H20: protection cap possible up to 9 m – over 9 m only cut straight

LK20: rounding with sealing possible up to 9 m – over 9 m only cut straight

Special lengths possible up to 11.90 m

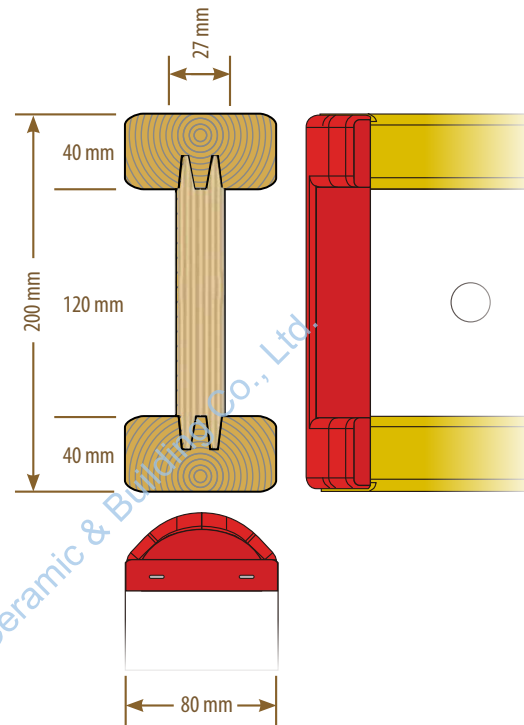
Characteristic limits

Lateral force	$V_k = 23.9 \text{ kN}$
Contact resistance	$R_{b,k} = 47.8 \text{ kN}$
Bending moment	$M_k = 10.9 \text{ kNm}$
Rigidity I	$E_I = 450 \text{ kNm}^2$

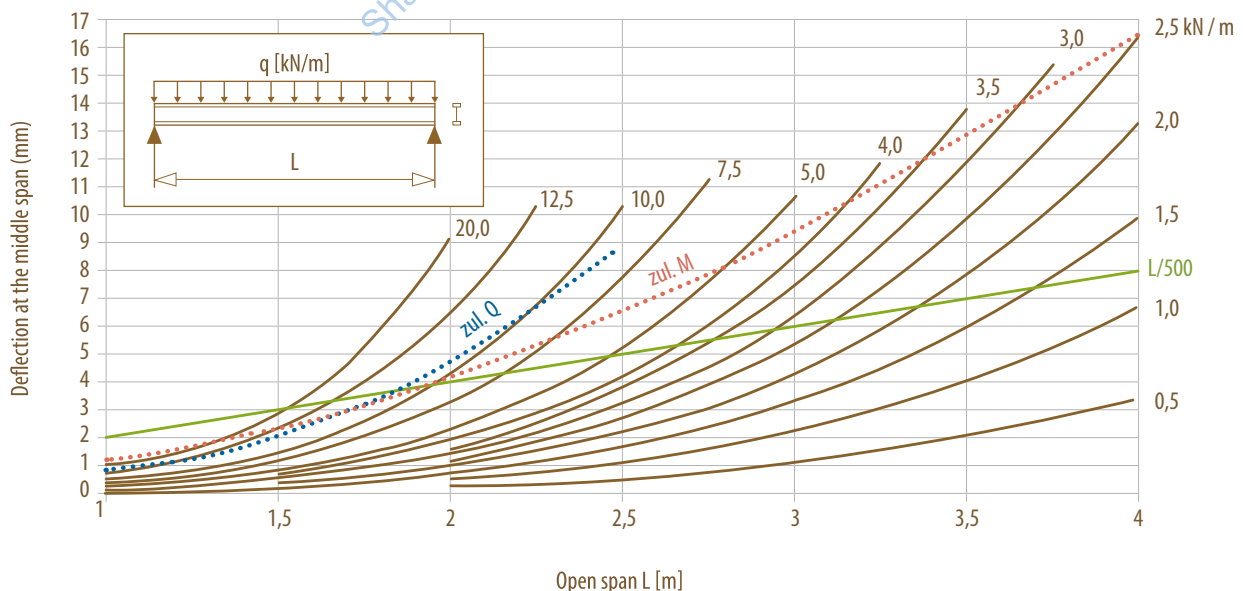
Measurements

Size tolerance: height $H=200 \pm 2 \text{ mm}$ Length tolerance: specified length $\pm 10 \text{ mm}$

Weight: approx. 4.8 kg/m



Formwork beam deflection



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WA BUINESS

Permissible values:

Shear force	Q = 11 kN	The chords are mechanically tested for stress grading.
A support reaction	A = 22 kN	
Bending moment	M = 5 kN	

Formwork beam features:

Girder length Manufacturer information: name, logo Custom labeling, client logos possible
Girder types Classification Monitoring level M Product identification number Country of origin

Measuring table forms:

To calculate table forms please see the two tables to the right with the maximum permissible yoke, cross and support beam spacing. The specified influence lines may not be exceeded anywhere.

Measurement table:

Example:

Given: Ceiling thickness (20 cm) + cross-beam spacing (75 cm)

Sought: Yoke-beam spacing + support spacing

- 1 Ceiling thickness: 20 cm
- 2 Cross-beam spacing: 75 cm
- 3 Permissible yoke-beam spacing according to table 1 = 2.56 m
- 4 Select same or next smaller yoke-beam spacing in table 2 = 2.5 m
- 5 Choose value 2.50 in table 2, choose the value for ceiling thickness (20 cm) and read the permissible support spacing value: 1.2 m
- 6 Attention: The corresponding bearing capacity of the supports must be verified!

Regulations for installation:

The fitting of the formwork beams must be performed by professional and trained personnel in accordance with our application guidelines and safety instructions.

The permissible open span of the LK20 and the E-Ply Piano H20 may not exceed 4,0 m. The sheeting is to be nailed directly onto the upper chord.

Wooden formwork beams should only be utilized in an upright position and must be securely fastened to prevent tipping, as per static requirements.

Changes of the product are prohibited and can cause increased hazard potential.

Regulations of use:

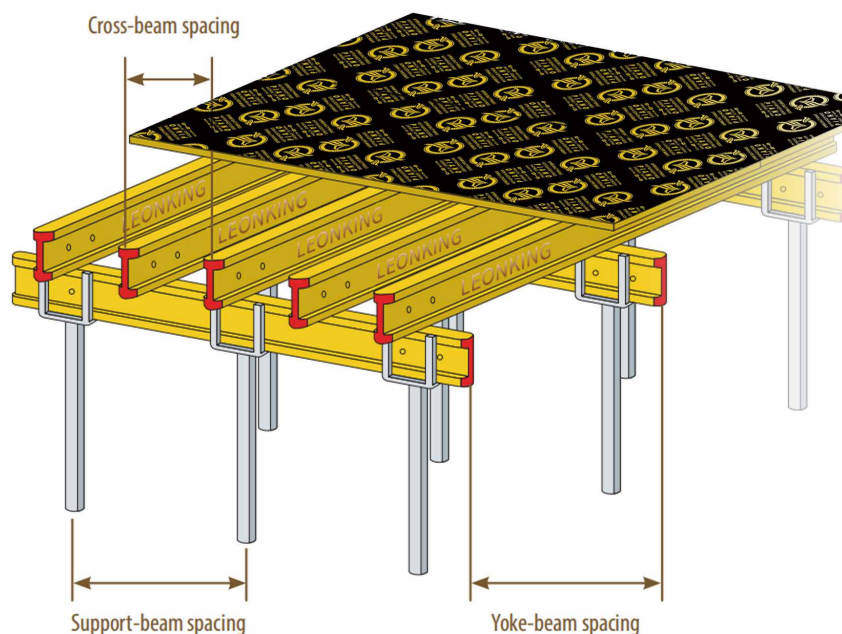
Every item must be inspected by the installation firm and may only be used if in perfect condition.

Formwork beams that are damaged or weakened by decay are not to be used.

Please observe that the formwork beams should not be stored in a way that they are exposed to heavy climatic influences and should not be stored outside unprotected. A professional storage increases the general endurance and reduces deformation and crack formation.

		Table 1					Table 2									
		Cross-beam spacing (m)					Yoke-beam spacing (m)									
Floor thickness (cm)	Total load kN/m²	0,50	0,63	0,67	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	3,00	3,50		
		Max. distance between cross beams (m)					Max. distance between yoke-beams (m) = max. distance between ceiling support beams									
10	4,40	3,63	3,37	3,29	3,17	2,88	2,67	2,46	2,28	2,13	2,01	1,91	1,67	1,43		
12	4,92	3,43	3,19	3,12	3,00	2,72	2,53	2,33	2,16	2,02	1,90	1,79	1,49	1,28		
14	5,44	3,27	3,04	2,97	2,86	2,60	2,41	2,21	2,05	1,92	1,80	1,62	1,35	1,16		
16	5,96	3,14	2,92	2,85	2,74	2,49	2,31	2,12	1,90	1,83	1,64	1,48	1,23	1,05		
18	6,48	3,03	2,81	2,75	2,65	2,40	2,22	2,03	1,88	1,70	1,51	1,36	1,13	0,97		
20	7,00	2,93	2,72	2,66	2,56	2,32	2,14	1,95	1,80	1,57	1,40	1,2	1,05	0,90		
22	7,52	2,84	2,64	2,58	2,48	2,26	2,06	1,88	1,67	1,46	1,30	1,17	0,98	0,84		
24	8,04	2,76	2,57	2,51	2,42	2,19	2,00	1,82	1,56	1,37	1,22	1,09	0,91	0,78		
26	8,56	2,70	2,50	2,45	2,35	2,14	1,93	1,71	1,47	1,29	1,14	1,03	0,86	0,73		
28	9,08	2,63	2,44	2,39	2,30	2,09	1,88	1,62	1,38	1,21	1,08	0,97	0,81	0,69		
30	9,66	2,57	2,39	2,34	2,25	2,03	1,82	1,52	1,30	1,14	1,01	0,91	0,76	0,65		
35	11,22	2,45	2,27	2,23	2,14	1,89	1,57	1,31	1,12	0,98	0,87	0,78	0,65	0,56		
40	12,78	2,35	2,18	2,13	2,04	1,72	1,38	1,15	0,98	0,86	0,77	0,69	0,57	0,49		
45	14,34	2,26	2,10	2,04		1,53	1,23	1,02	0,88	0,77	0,68	0,61	0,51	0,44		
50	15,90	2,18	2,01	1,94		1,38	1,11	0,92	0,79	0,69	0,61	0,55	0,46	0,40		

The girder deflection is limited to L/500.
Live load 1,5 kN/m² or 20 % of concrete weight.



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PIANOPLYWOOD



WA BUINESS

TIMBER

PIANOPLYWOOD

PRODUCT CERTIFICATE



Environmentally friendly



Free samples&prompt delivery



Visualization



Customized size&thickness



Up to 12000 mm



High standards&quality

LENGTH	2400 / 3000 / 3600 / 4200/ 4800/ 6000 / 7200 / 12000 mm
WIDTH	50 / 75 / 100 / 125 / 150 / 175 / 200 / 225 / 250 / 300 mm
THICKNESS	47 / 75 / 100 mm
MATERIAL	Douglas fir/ spruce/ fir/ radiated pine larch/ Mongolian pine/ birch/ ash basswood/ walnut/ cherry/ oak/ southern yellow pine
STANDARD	BS 4978 / EN 14081 / ISO 737 ISO 1029 / ISO 2299 / ISO 4470
PROCESS	Pressure treated / Carbonized



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WA BUINESS



CDX PLYWOOD

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PRODUCT CERTIFICATE



Environmentally friendly



Free samples&prompt delivery



Visualization



Customized size&thickness



High standards



High quality

FORMAT SIZE	1220 × 2440 mm(4' × 8') / 915 × 2135mm(3' × 7')
THICKNESS	2.7-24 mm
OTHER SIZE	Customized size and thickness
STANDARD	BS EN 314-2 / BS EN 315 / BS 6566 / EN 13353 / EN 12775
DENSITY	500-630 kg/m ³
MOISTURE CONTENT	8%-12%



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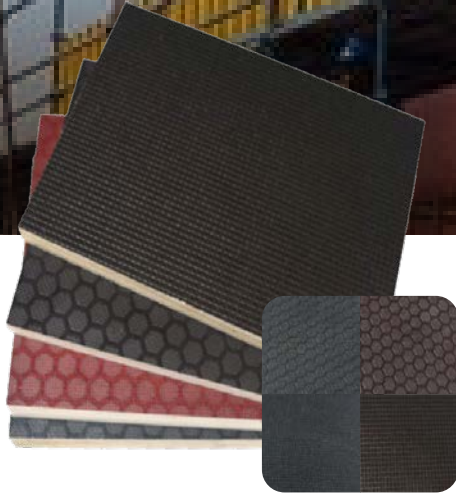
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WA BUINESS

ANTI SLIP FILM FACED PLYWOOD

PIANOPLYWOOD



PRODUCT CERTIFICATE



Environmentally friendly



Free samples&prompt delivery



Visualization



Customized size&thickness



High standards



High quality

FORMAT SIZE	1200 × 2400 mm / 1220 × 2440 mm / 1250 × 2500 mm
THICKNESS	9 / 12 / 15 / 18 / 20 / 21 / 25 mm
MATERIAL	Poplar / Eucalyptus / Birch / Pine / Combi
STANDARD	BS EN 314-2 / BS EN 315 / BS EN 316 / BS EN 636
DENSITY	500-700 kg/m ³
MOISTURE CONTENT	8%-12%



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PIANOPLYWOOD



WA BUINESS

CIRCULAR FILM FACED PLYWOOD

PIANOPLYWOOD



PRODUCT CERTIFICATE



Environmentally friendly



Free samples&prompt delivery



Visualization



Customized
Size & Thickness & Diameter



Prov. cust. logo&design



High standards&quality

FORMAT SIZE	300-3000 mm × 1000-3000 mm × 14-18 mm / 20-22 mm
DIAMETER	300-3000 mm
LENGTH	1000 × 3000 mm
THICKNESS & DIAMETER	14-18 mm & 300-1200 mm / 20-22 mm & 1200-3000 mm
MATERIAL	Poplar / Eucalyptus / Birch / Pine / or Other hardwood
STANDARD	BS EN 314-2 / BS EN 315 / BS EN 316 / BS EN 636



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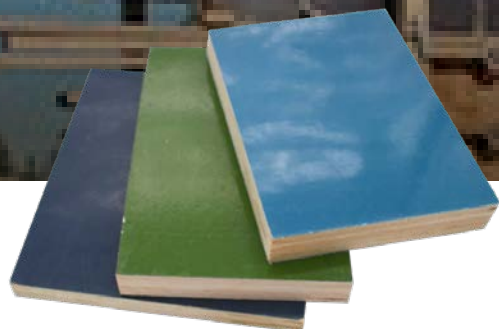
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WA BUINESS

PLASTIC FILM FACED PLYWOOD

PIANOPLYWOOD



PRODUCT CERTIFICATE



Casting up to 30 times



Free samples&prompt delivery



Eco-friendly&visualization



Customized size&thickness

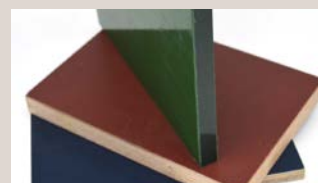


Customized multiple colors



High standards&quality

FORMAT SIZE	1220 × 2440 mm (4' × 8') / 1250 × 2500 mm
LENGTH	1525 / 1830 / 2135 / 2400 / 2440 / 2500 / 3000 / 3050 mm
WIDTH	610 / 915 / 1200 / 1220 / 1250 / 1500 / 1525 mm
THICKNESS	6-35 mm
STANDARD	BS EN 314-2 / BS EN 315 / BS EN 316 BS EN 636 / EN 13353
DENSITY	500-680 kg/m ³
MOISTURE CONTENT	8%-12%



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PIANOPLYWOOD



WA BUINESS

MDO FILM FACED PLYWOOD

PIANOPLYWOOD



PRODUCT CERTIFICATE



Environmentally friendly



Free samples&prompt delivery



Visualization



Customized size&thickness

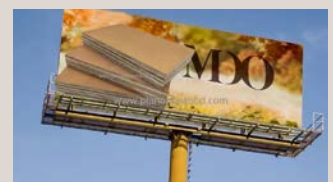


High waterproof



High standards&quality

FORMAT SIZE	1220 × 2440 mm / 1250 × 2500 mm
THICKNESS	9-25 mm
LENGTH	1830 / 2440 / 2500 / 3000 / 3050 mm
WIDTH	610 / 915 / 1220 / 1250 / 1500 / 1525 mm
STANDARD	BS EN 314-2 / BS EN 315 / BS EN 316 BS EN 636 / EN 13353
DENSITY	500-530 kg/m ³



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PIANOPLYWOOD



WA BUINESS

ORIENTED STRAND BOARD

PIANOPLYWOOD

PRODUCT CERTIFICATE



Environmentally friendly



Free samples&prompt delivery



Visualization



Customized size&thickness



High waterproof



High standards&quality

FORMAT SIZE	1220 × 2440 mm / 2100 × 280 mm / 1830 × 2440 mm
LENGTH	2440 / 2800 mm
WIDTH	1220 / 1830 / 2100 mm
THICKNESS	9-25 mm
STANDARD	APA PS1-95 / ANSI 117 / ANSI A190.1 ANSI/APA RPG 320 / ANSI 405 / EN314-2
SURFACE DESIGN	Melamine paper(glossy / matt / embossed etc.) Beech / Oak / Walnut / Maple / Teak / Cherry / Ivory or as request



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WA BUINESS

OSB-ORIENTED STRAND BOARD

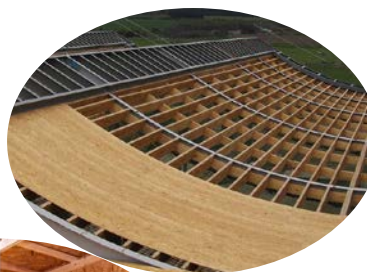
PRODUCT

OSB-Oriented Strand Board



OSB sheathing panels provide dimensional stability and stiffness for wall and roof sheathing applications. These panels have strong and uniform consistency throughout. Plus, they have a blue edge seal that helps prevent moisture-related issues such as edge swell.

- Every piece meets the highest grading standards for strength and appearance
- No core voids, knots, or splits
- Multi-layered bonding provides exceptional dimensional stability and stiffness
- Panels offer strength, racking and impact resistance, and uniformity



Format	2500*1250 , 2440*1220mm ,(customizable according to requirements)
Thickness	9,12,15,18mm ,(Customizable according to requirements)
Emission Class	E1 (EN ISO 12460-5)
certificate	FSC/CE/CARB/ISO 9001
standard	EN 300-type OSB 3/EN 13501-1:class B-s1,d0/EN 13986:2004+A1:2015
Application	1.Structural applications:walls,floors,roofs,staircases,hoardings , 2.Interior:furniture elements,decorative elements in indoor spaces,framework in upholstered furniture,door panels,claddings and partition walls , 3.Packaging:shipping boxes and containers,pallets , 4.Retail & exhibitions , 5.Warehouse management(shelving,racking,etc.)



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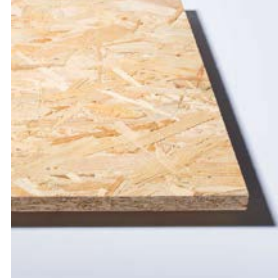
WA BUINESS

OSB-ORIENTED STRAND BOARD

OSB 2

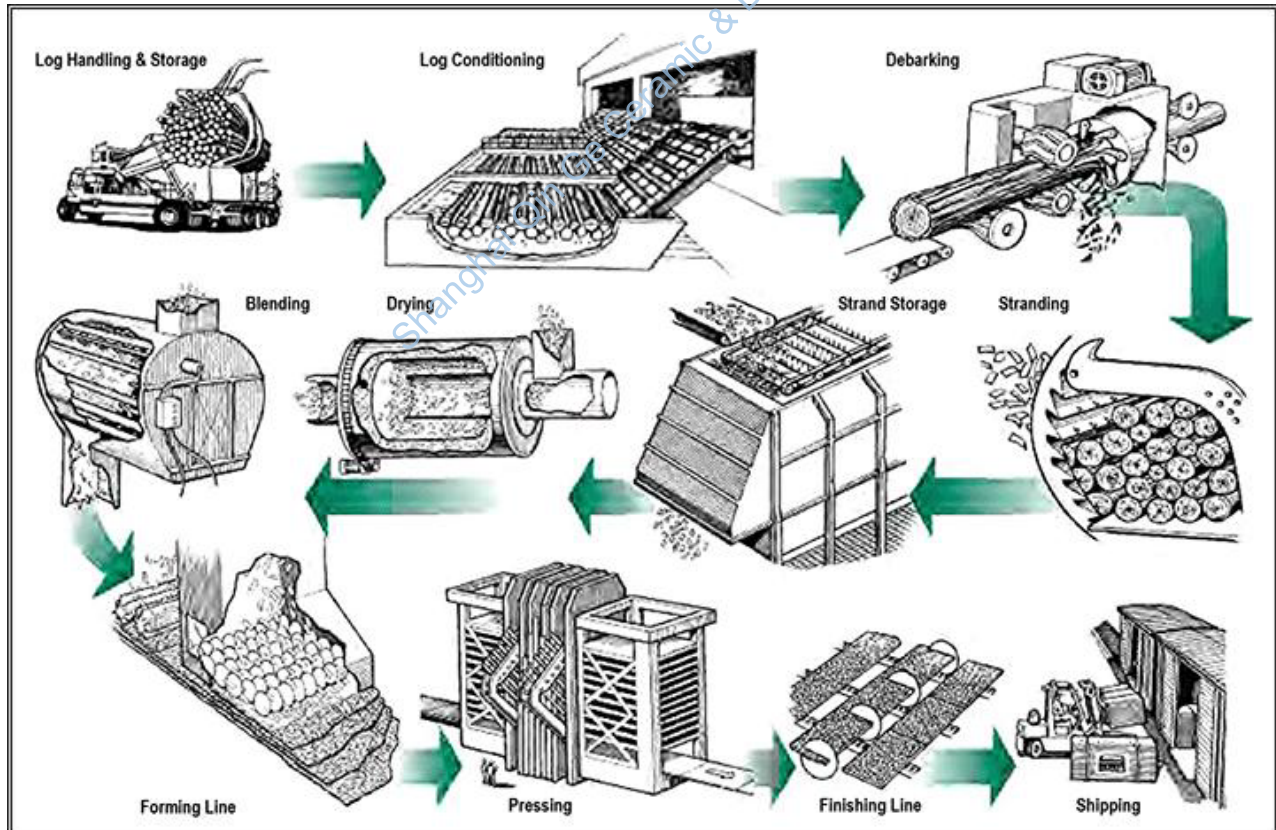
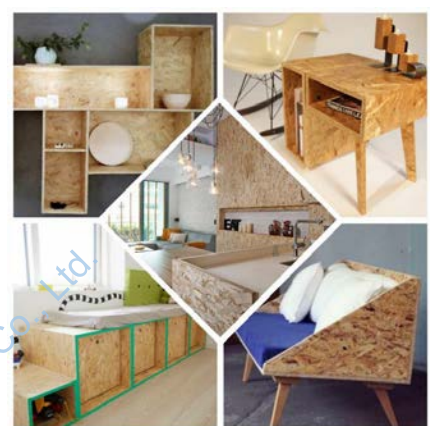


OSB 2 is developed and manufactured entirely in compliance with the current demand of ecological living focused on organic materials. Selecting suitable wood and binder, OSB 2 meets high standards of not only environmental buildings.



OSB 3

OSB 3 is the most progressive OSB type that is currently available. OSB 3 is developed and manufactured entirely in compliance with the current demand of ecological living focused on organic materials. Selecting suitable wood and binder, OSB 3 meets high standards of not only environmental buildings.



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PIANOPLYWOOD



WA BUINESS

PRESSURE TREATED TIMBER

PIANOPLYWOOD

PRODUCT CERTIFICATE



Corrosion resistance



Free samples&prompt delivery



Visualization



Customized size&thickness



High waterproof



High standards&quality

LENGTH	Up to 12000 mm
WIDTH	50 / 75 / 100 / 125 / 150 / 175 / 200 / 225 / 250 / 300 mm
THICKNESS	47 / 75 / 100 mm
MATERIAL	Douglas fir / Spruce / Fir / Radiated pine / Larch / Mongolian pine / Birch / Ash/ Basswood / Walnut / Cherry / Oak / Southern yellow pine
TREATMENT AGENT	CCA / ACQ / CA-B / CBA / Cu8 / CuN / BAC / Cu+DDAC / Arsenic / Permethrin / Cypermethrin / Deltamethrin / Creosote / Bifenthrin / TBTO Or TBTN
PROCESS	Pressure treated / Carbonized



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PIANOPLYWOOD



WA BUINESS

PRESSURE TREATED TIMBER

PRODUCT

Pressure Treated Timber



Use category		Use condition	Use environment	Main biological wood-destroying agencies	Typical use
C1	H1	Indoor; kept clear of soil	Used in indoor dry environment; free of effect from weather and moisture	Moth	Building interior, decoration and furniture
C2	H2	Indoor; kept clear of soil	Used in indoor environment, sometimes under the effect of moisture but free of weather effect	Moth, termite and wood-destroying fungi	Building interior, decoration, furniture, basement and toilet
C3	H3	Outdoor; kept clear of soil	Used in outdoor environment and exposed to various weathers, including shower but not immersed in water for a long term	Moth, termite and wood-destroying fungi	Deck (of platform, walkway and trestle), outdoor furniture and exterior door and window (of building)
C4A	H4	Outdoor; exposed to soil or immersed in fresh water	Used in outdoor environment, exposed to various weathers, and contacted with the ground or immersed in fresh water for a long term.	Moth, termite and wood-destroying fungi	Fence column, support, wooden house foundation, cooling tower, electric pole and jamb (pitprop)
C4B	H5	Outdoor; exposed to soil or immersed in fresh water	Used in outdoor environment, exposed to various weathers, and contacted with the ground or immersed in fresh water for a long term. Structural component which is difficult to replace or the crucial one.	Moth, termite and wood-destroying fungi	(Fresh water) Pier fender, pile and jamb (pitprop)
C5	H6	Immersed in seawater (salt water)	Immersed in seawater (salt water) for a long term.	Marine boring animal	Seawater (salt water) pier fender, pile and wooden boat

Length	Up to 12 meters (customized according to requirements)
Width/thickness	Customizable according to requirements
Treatment agent	CCA/ACQ/CA-B/CBA/Cu8/CuN/BAC/Cu+DDAC/Arsenic/Permethrin/Cypermethrin/Deltamethrin/Creosote/Bifenthrin/TBTO or TBTN
Standard	H2F/EN-350-2-1994
Material	Pine/Radiata Pine/Red pine/Larch/fir/spruce/southern pines/Douglas fir/Hemlock/Mason pine
Application	1. Anticorrosive wooden flower racks and boxes; 2. Anticorrosive wooden corridor; 3. Anticorrosive wood flooring; 4. Anticorrosive wooden tables and chairs, and anti-corrosion wooden stools



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