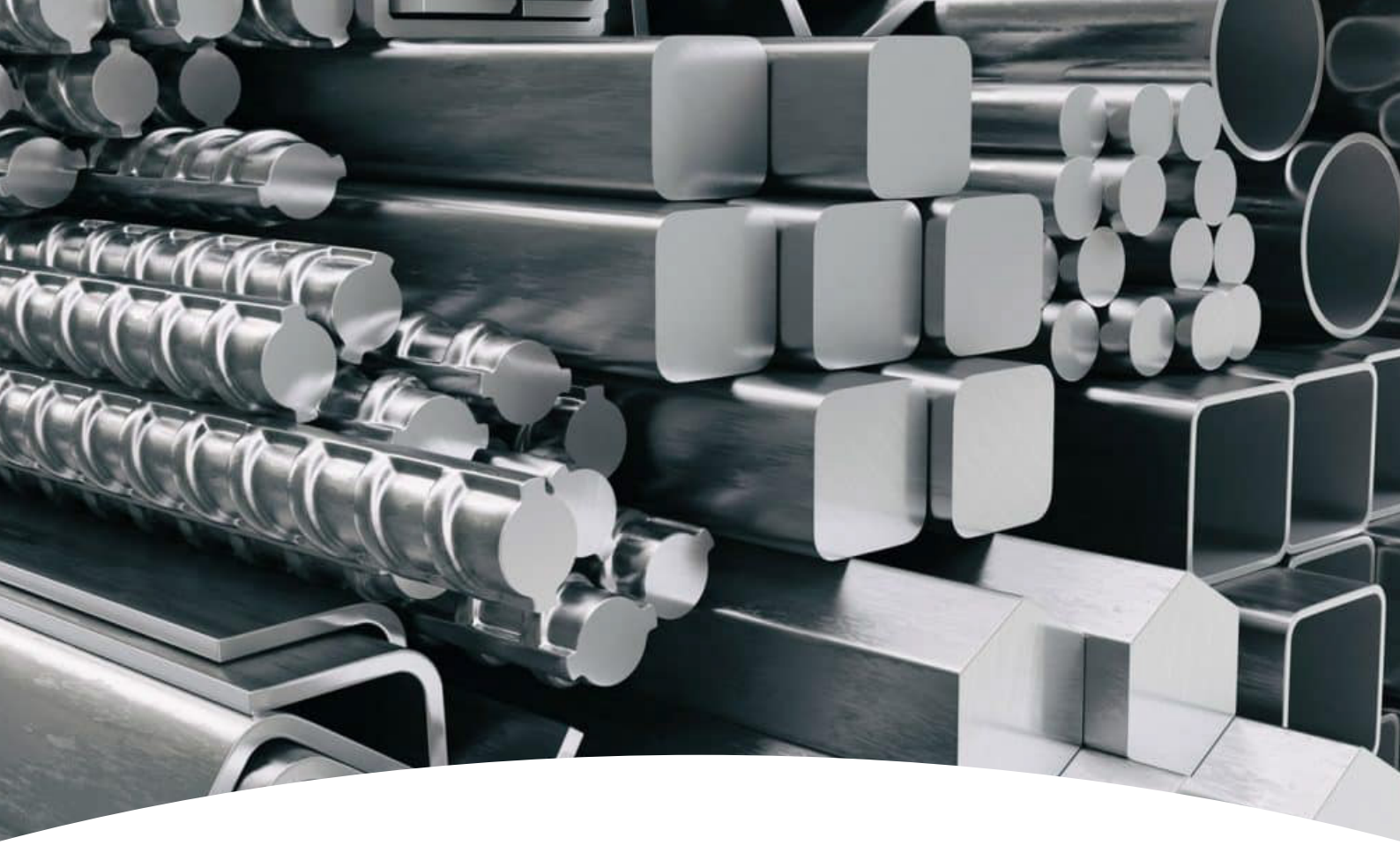


PIANO

PIANOPLYWOOD

CONSTRUCTION METAL ACCESSORY

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

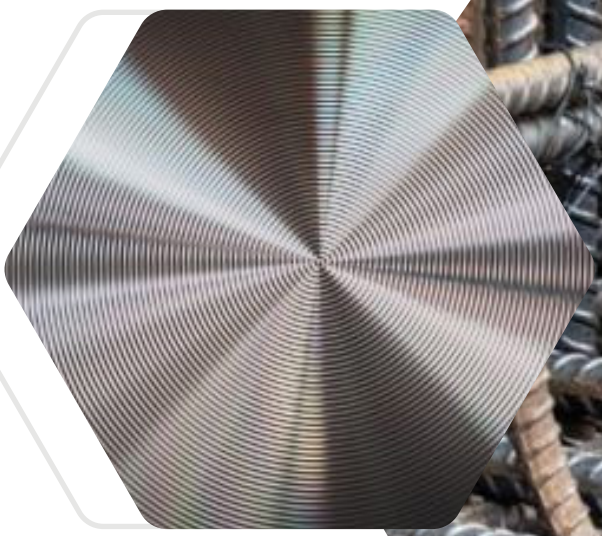
Water Bolied Proof

10-year warranty

CE

ISO 9001

PIANO



CONSTRUCTION METAL ACCESSORY

PRODUCT SPECIFICATION INTRODUCTION



CONTENTS

01 / Black Annealed Wire

02 / PC Strand

03 / Steel Rebar

04 / Steel Pipe

05 / Metal Fence

06 / Metal Formwork

07 / Manufacturing Scaffolding

08 / Scaffolding Accessories and Couplings

09 / Base & Props

10 / Fastene

11 / Couplers

12 / Stacking Pallets for Props

13 / Ring Lock System

14 / Professional Ladder

15 / Wooden Connector

16 / Nail & Screw

BLACK ANNEALED WIRE







Black annealed wire is black iron wire drawn from Q195 type wire rod.

CRAFT:
After selecting the raw material, it is calcined at a high temperature of about 1000° for a sufficient time, and then cooled at an appropriate speed. The purpose is to reduce hardness, improve machinability; eliminate residual stress, stabilize size, reduce deformation and crack tendency; refine grain, adjust structure, and eliminate structure defects.

FEATURES:
Softer and more flexible than ordinary black iron wire, with uniform softness and consistent color

USE:
Mainly used in construction, mining, chemical industry, welding mesh, welding clothes hanger, reprocessing, etc. After annealing, the iron wire becomes softer and its flexibility increases, which is better for building wire binding and steel bar binding.

Material:	Processing method:	Tensile strength:	Size:
Steel wire	Cold rawing, annealing	350-550MPA	0.9/1.2*6 or Customized

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PC STRAND







PC strand is a steel product made by winding multiple steel wires.
Divided intoprestressed steel strands (electrical), galvanized steel strands and stainless steel strands.

CRAFT:
Divided into monofilament manufacturing and stranded wire manufacturing, (cold) wire drawing technology is used to make monofilament, and electroplating or hot-plating treatment can be performed.The middle of the steel strand should be required to be other steel wires with the same diameter, strength and zinc layer, and the prestressed steel strand needs to be stabilized continuously after forming.

FEATURES:
high tensile strength and elongation;low relaxation value;
small stress losing;excellent durable anti-fatigue performance.

USE:
In construction, bridge, water conservancy and other projects, unbonded prestressed steel strands are mainly used in floor and foundation projects.

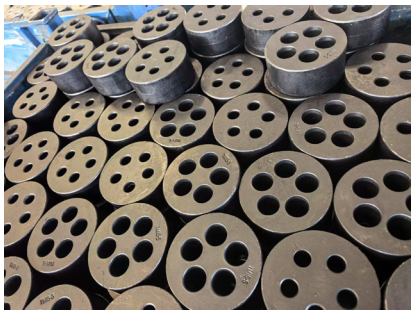
Material	Tensile strength	Size
High-carbon steel	1860/1960	12.7/15.7mm coating unbonded 15.7mm

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PC STRAND

PRODUCT DISPLAY



ANCHOR-1



Base



SPRING



Ducts (plastics)



Full set-1



Full set-2

ENGINEERING CASE













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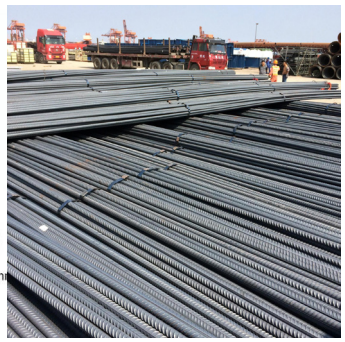
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WA BUINESS

STEEL REBAR







Steel rebar processing generally goes through four processes: steel bar derusting; steel rebar straightening; steel rebar cutting; steel rebar forming.

Classification:

Production process : hot-rolled, cold-rolled, cold-drawn steel rebars, and heat-treated steel rebars made of grade Ⅳ steel rebars through heat treatment, with higher strength than the former. Functions in structures: compression rebars, tension rebars,erection rebars, distributed rebars, stirrups, etc.

STANDARD:

BS4449-2005,GB1449.2-2007,JIS G3112-2004, ASTM A615-A615M-04a,etc.

USE:

Steel rebar are widely used in civil engineering constructions such as highways, buildings, bridges, and roads.

Steel wire rod: an alloy or non-alloy rolled product from semi-finished steel, achieves fine cross-sections via cold drawing and is coiled for transport. Steel wire, cylindrical and flexible, can be made into wire rope, greatly enhancing its use in construction.





Material standard	Length	Diameter
High-carbon steel	1-12M	6-50mm

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STEEL PIPE



Galvanized steel pipe is a welded steel pipe with a hot-dip or electro-galvanized layer on the surface.Divided into seamless steel pipe and welded steel pipe.
Surface Treatment: Galvanized/Black/Transparent oil,anti-rust oil
Material:Q195/Q215/Q235/Q345
USE: Structure, Accessorize,Construction,Fluid transportation, machinery parts,the stress parts of the automobile.

Outer Diameter		Wall Thickness	Length
inch	mm	mm	meter
1/2”	21.3	0.6-3.0	0.3-12
3/4”	26.9	0.6-3.0	0.3-12
1”	33.4	1.0-3.0	0.3-12
1-1/4”	42.3	1.0-4.0	0.3-12
1-1/2”	48.3	1.0-4.0	0.3-12
2”	60.3	1.5-4.0	0.3-12
2-1/2”	76.1	1.5-4.0	0.3-12
3”	88.9	1.5-9.5	0.3-12
4”	114.3	2.0-9.5	0.3-12
5”	141.3	3.0-9.5	0.3-12
6”	168.3	3.0-12.0	1.0-12
8”	219.1	3.2-12.0	1.0-12
10”	273	3.2-12.0	1.0-12
12”	323.8	6.0-15.0	1.0-12
14”	355.6	8.0-15.0	1.0-12
16”	406.4	8.0-20.0	1.0-12

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PIANOPLYWOOD WA BUINESS



METAL FENCE

SINGER

PIANO



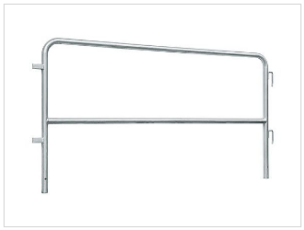
BARRIER HOT DIP GALVANIZED

QG020501



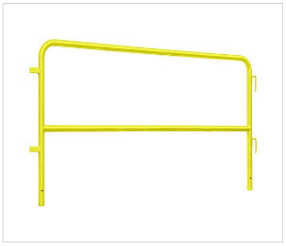
BARRIER POWDER COATED

QG020502



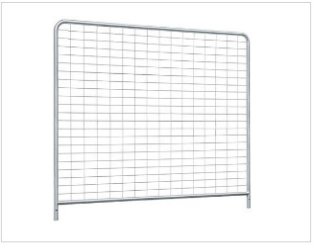
GUARD RAIL HOT DIP GALVANIZED

QG020503



GUARD RAIL POWDER COATED

QG020504



FENCE HOT DIP GALVANIZED

QG020505



FENCE POWDER COATED

QG020506



FOUNDATION PIT GUARDRAIL

QG020507



SUBSTATION FENCE

QG020508



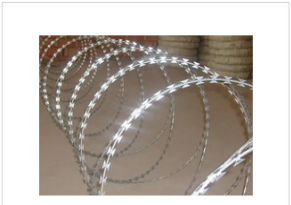
TELESCOPIC FENCE

QG020509



GREEN BELT FENCE FENCE

QG020510



RAZOR BARBED WIRE

QG020511



SLOPE PROTECTION NET

QG020512



SECURITY MESH FENCE

QG020513



MOBILE FENCES

QG020514



MOBILE FENCES

QG020515



DECORATIVE GRILLE FENCE

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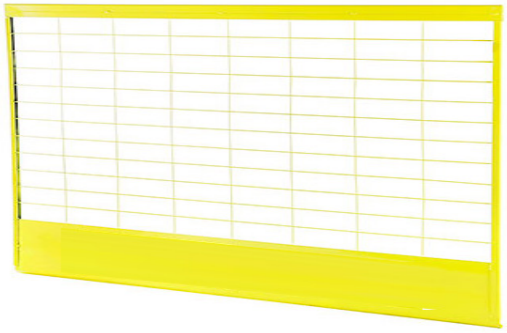
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WA BUINESS

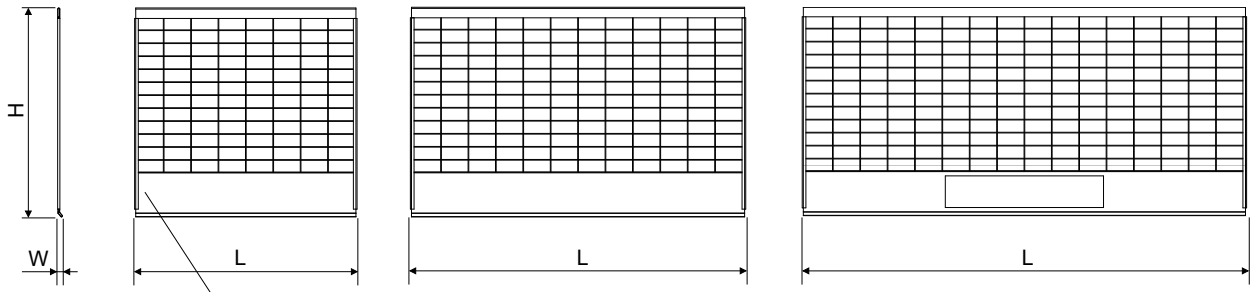


METAL FENCE

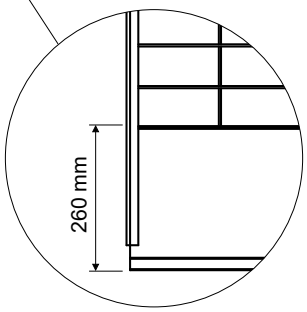
- L: 1300/1950/2600 mm
- W: 30 mm
- H: 1222 mm
- 10,8/15,1/19,7 kg
- Steel + Zn + Powder coating

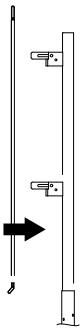


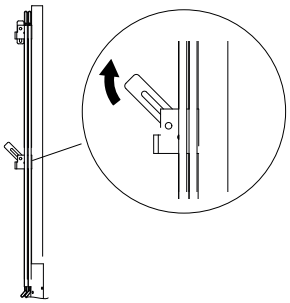
- 1,3–2,6 × 0,91 × 1,42 m
- 537/695/730 kg
- 46/46/35 pcs

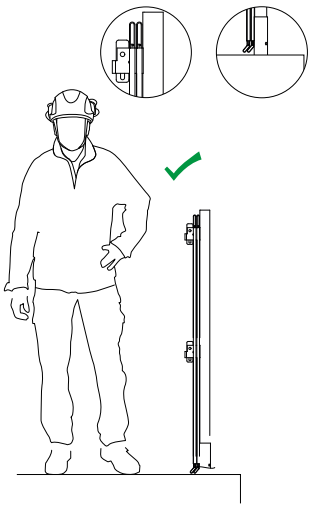


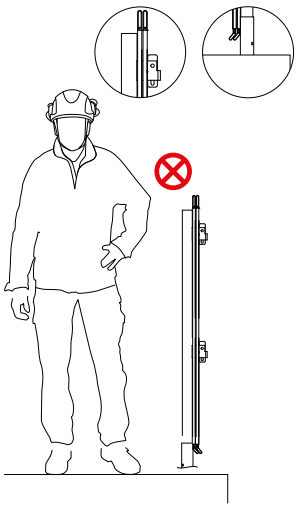












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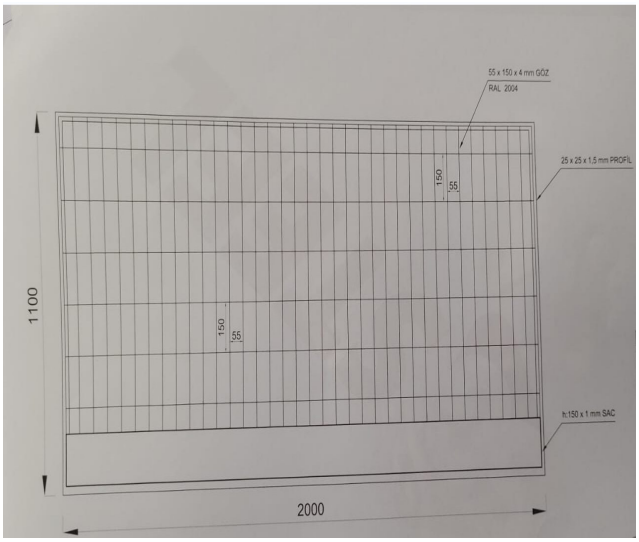
WA BUINESS

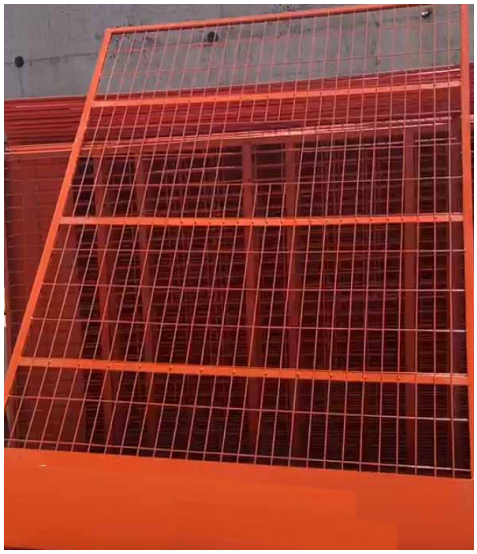


METAL FENCE

- L: 2000 mm /1500 mm
- W: 40 mm
- H: 1100mm /2000mm
- 13kg /17.5kg
- Steel + Zn + Powder coating











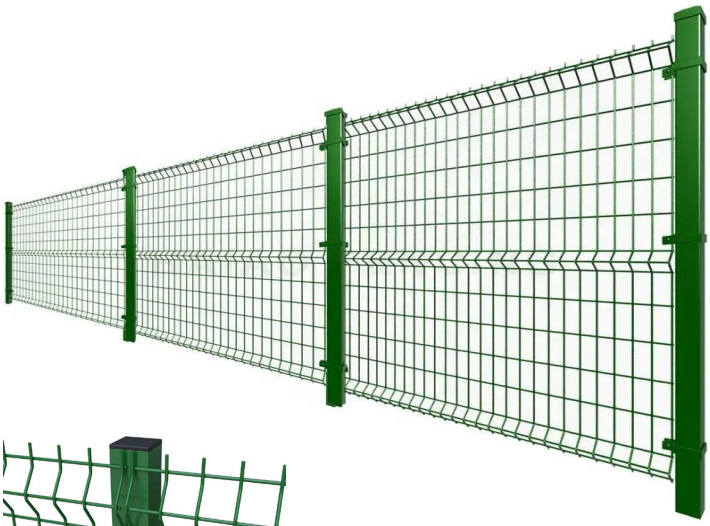
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PIANOPLYWOOD WA BUINESS



METAL FENCE

L: 2500 mm
W: 40-60 mm
H: 630-2430 mm
Mesh size:200mm x 50mm
Steel + Zn + Powder coating





Feature•
Easily Assembled, FSC, Pressure Treated Timbers, Renewable Sources, Rodent Proof, Waterproof

Usage•
Garden Fence, Highway Fence, Farm Fence

Type:
Fencing, Trellis & Gates, security fence, Driveway Gates, Fence Gates, Fence Hardware, Fence Panels, Fence Posts, Fence Rails, chain link fence, Fence Post Caps





Type:
Light mesh fence,suitable for use in demarcating borders of landscaped gardens, residential building,and similar

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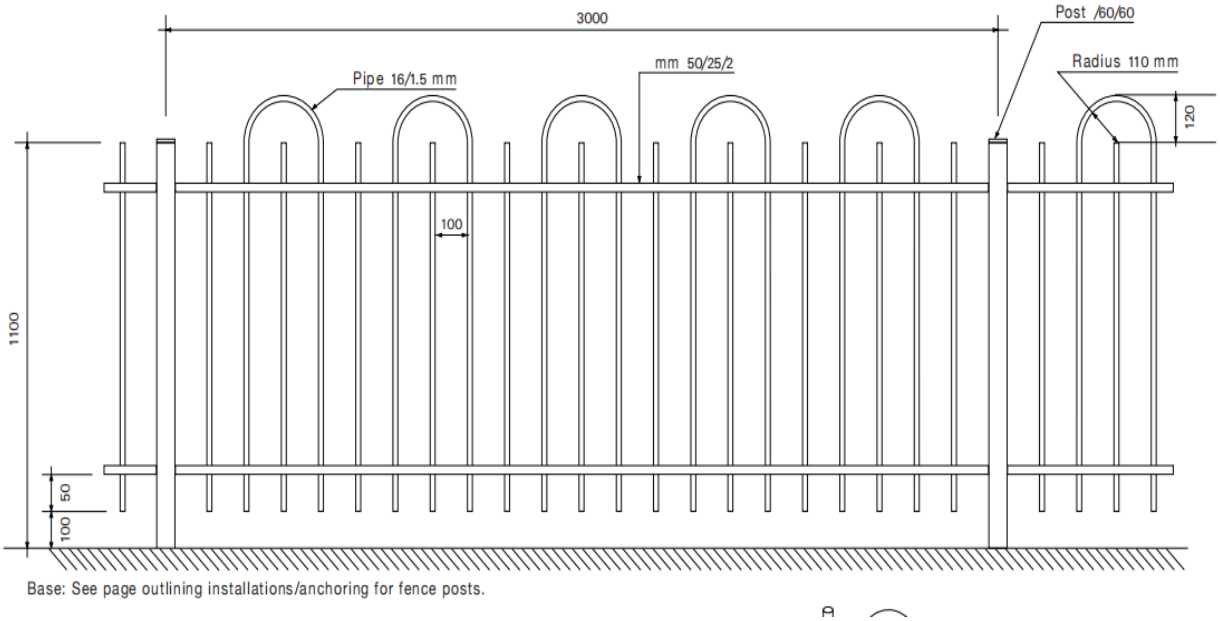
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METAL FENCE



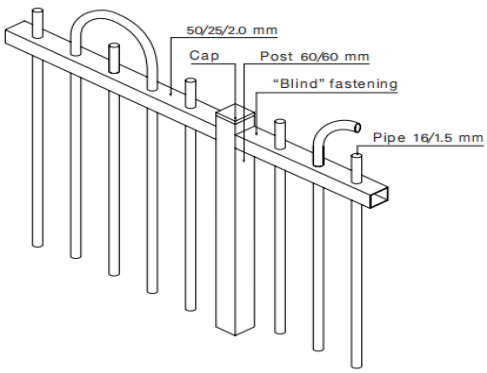




Base: See page outlining installations/anchoring for fence posts.

Height	Horizontal profiles	Vertical bars	Post	Posts' centres
700	50/25/1.5	Ø 16x1.50 mm	60/60/2.0	3000
1100	50/25/1.5	Ø 16x1.50 mm	60/60/2.0	3000
*1200	50/25/2.0	Ø 16x1.50 mm	60/60/2.9	2000
**2000	50/25/2.0	Ø ¾"x1.50 mm	60/60/2.0	3000

The above dimensions are in mm.

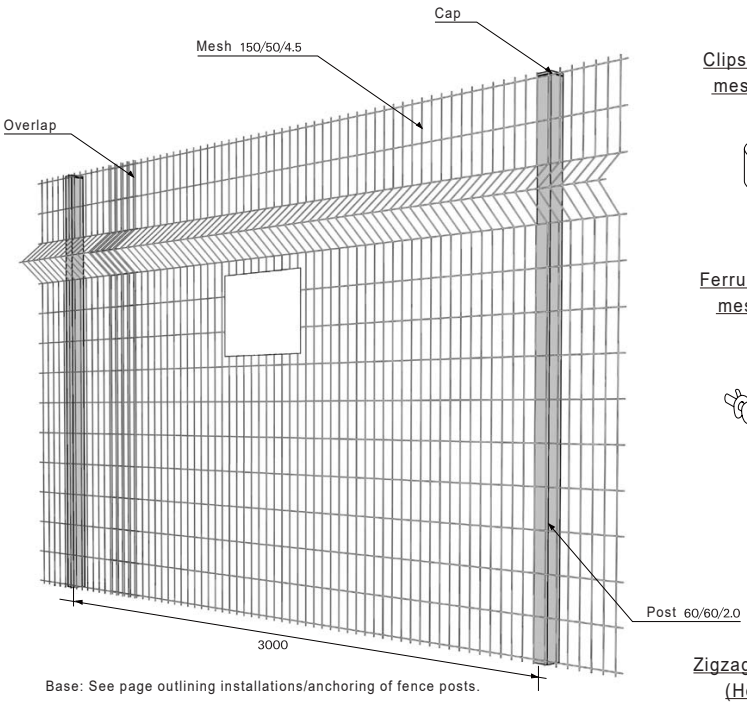


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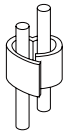


METAL FENCE

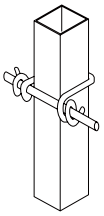


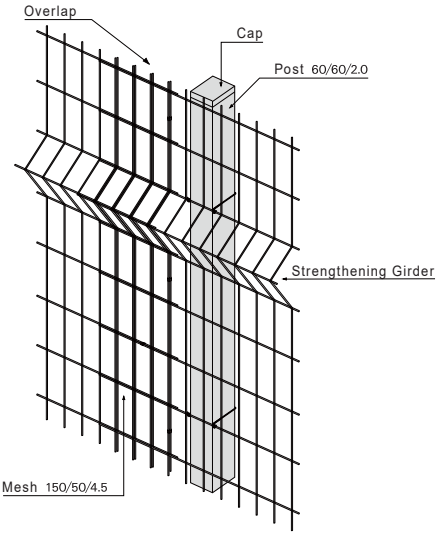
Base: See page outlining installations/anchoring of fence posts.

Clips for joining mesh to mesh

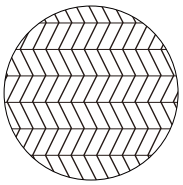


Ferrule for fixing mesh to pole

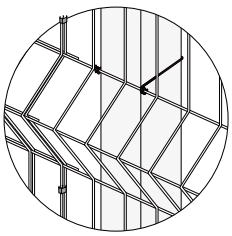




Zigzag mesh – Arrow (Hetz) pattern



Strengthening Girder

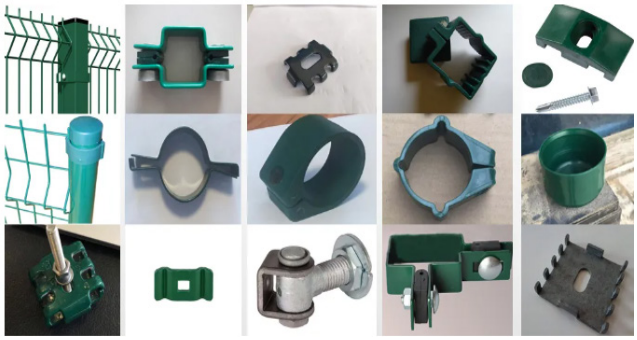


Height	Mesh	Post	No. of ferrules	No. of clips	Posts' centres
1300	150/50/4.5	60/60/2.0	3	6	3000
1600	150/50/4.5	60/60/2.0	4	8	3000
2000	150/50/4.5	60/60/2.0	4	8	2000

The above dimensions are in mm.

Type:

Security mesh fence for use as a physical obstacle for perimeter fencing and generally demarcating site boundaries. This fence is suitable for use as erimeter continuous fencing of storage areas, factories, agricultural lands,institutions, and similar.





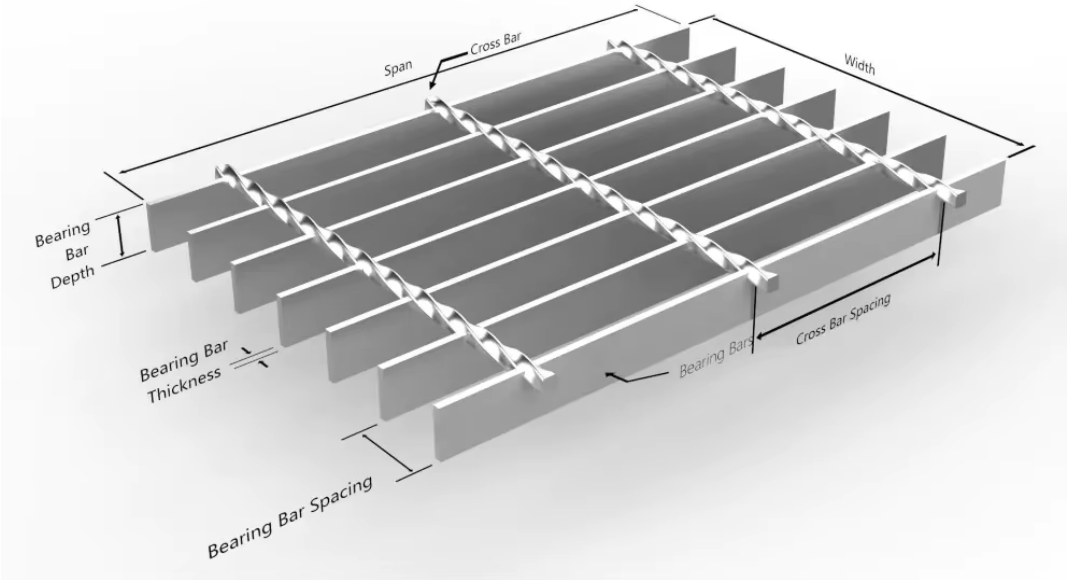
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PIANOPLYWOOD WA BUINESS



STEEL GRATING

STEEL GRATING



STEEL GRATING

The press welded steel grating, requested by the customers, ismade of load flat steel bar and cross bars, placed horizontally andvertically, and at an equal pitch apart, by welding with 200-tonhydraulic resistance automatic welding equipment, then cuttingpunching and banding ends.

Load bearing steel bar pitch: Pitch between the two neighboringload bearing steel bars is 30mm or 40mm.Cross bar pitch: Pitch between two neighboring cross bars is usually 50mm or 100mm.Special specifications can be done according toyour request.

Material	Carbon Steel, Stainless Steel, Aluminum	
Surface treatment	Hot dipped galvanized, Spray painting, Polished and powder coated	
Bearing bar type	Plain(Flat) bar, Serrated bar, I-bar, etc.	
Common specification		
Bearing bar pitch (mm)	**Cross bar pitch (mm)**	**Bearing bar size (WSG_Height×Thickness_Bearing bar pitch_Cross bar pitch)**
30	100	WSG_203/253/323/403/205/325/405/455/505/555_30_100
	50	WSG_203/253/323/403/205/325/405/455/505/555_30_50
40	100	WSG_203/253/323/403/205/325/405/455/505/555_40_100
	50	WSG_203/253/323/403/205/325/405/455/505/555_40_50
60	50	WSG_203/253/323/403/205/325/405/455/505/555_60_50
If you have any questions regarding the dimensions or specific specifications, please feel free to contact us immediately.		

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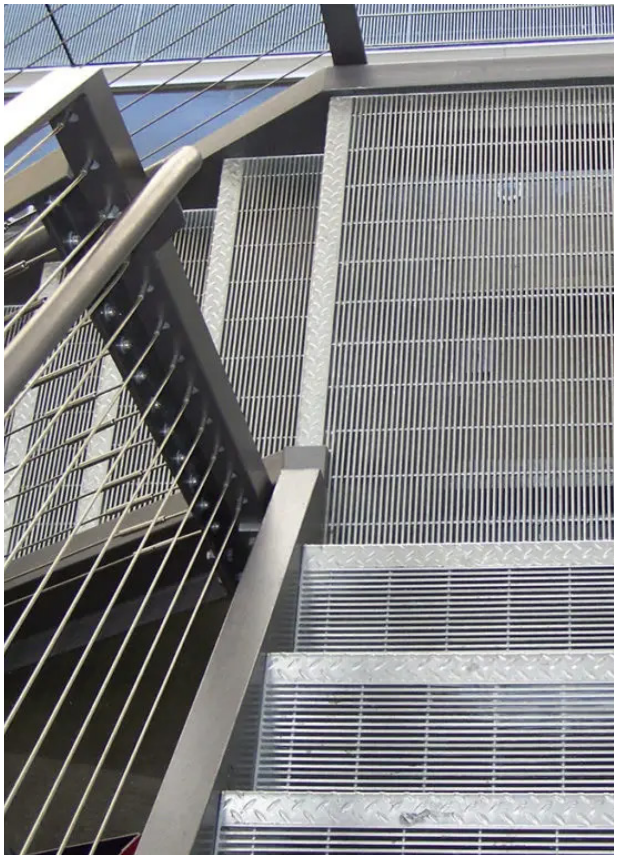
PIANOPLYWOOD

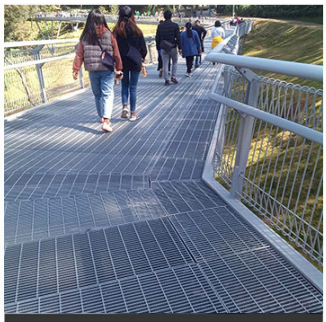
WA BUINESS



STEEL GRATING

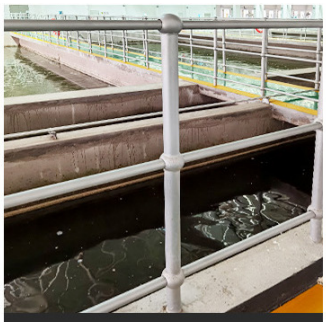
PRODUCT
APPLICATION SCENARIOS





园林走道

THE GARDEN WALKWAY



污水处理厂

SEWAGE TREATMENT



桥梁码头

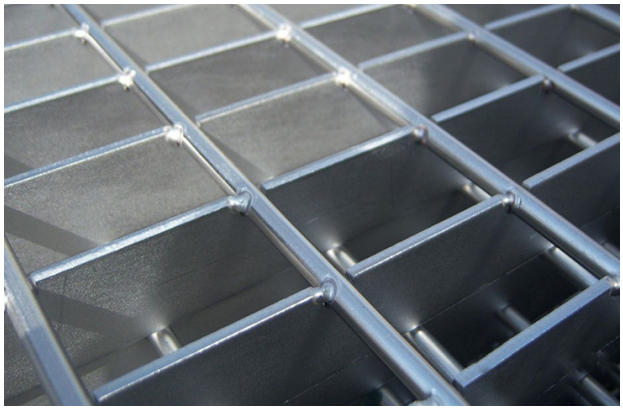
BRIDGE PIER



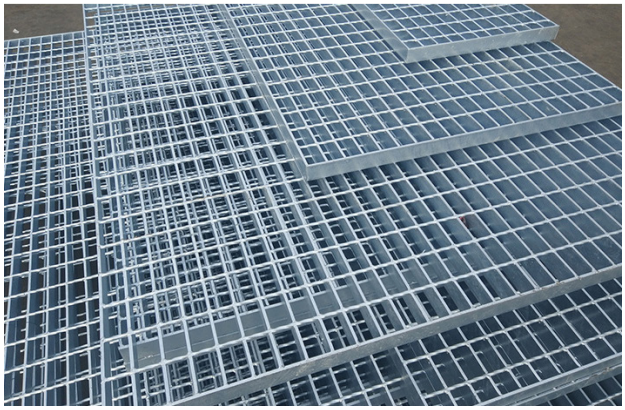
矿山走道

MINE WALKWAY

PRODUCT ADVANTAGES



Abundant spot inventory



Strict selection of materials, stable quality

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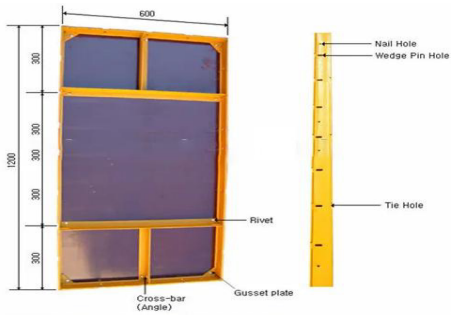
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PIANOPLYWOOD

WA BUINESS

METAL FORMWORK







Material:Steel/Aluminium

Surface Finishing:

Electrophoresis, Hot-dip galvanized； Powder Coating

Sizes:

2400*2200*120MM/2400*1800*120mm/2400*1200*120mm/
2400*300*120mm/2400*600*120mm/1200*600*120mm/
1200/300*120mm and we could design by the clientS' sizes and actual concrete requirement.

Profile:2.5MM thickness,120mm long

Feature：

SAFE -The independent table with 6 directions moving restriction.It's a very stable system.

EFFICIENT - It includes only few components, set and removal are very simple. With early stripping mechanism,it can shorten the construction period and save your time.

REDUCED TOTAL COST - Thanks to the early stripping mechanism,the number of panels becomes less and the cost,transportation and storage is reduced.

MINIMUM OPERATORS - 3-4 workers in a team can quickly and easily set up and remove the panels.

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PIANOPLYWOOD WA BUINESS



MANUFACTURING SCAFFOLDING









Bushing-type scaffolding

The easiest scaffolding to use due to its standardisation and the fact that it is quick to assemble and disassemble.

Pin-type scaffolding

Standard scaffolding consists of metal frameworks with predefined height and depth. Quick to as_x0002_semble, quick to disassemble.

Pipe-coupling scaffolding

with their variable geometry obtained by connecting pipes
by means of special couplings they can take any direction and angle.

Bushing-type scaffolding, pin-type scaffolding and pipe-coupling scaffolding how they differ.

Different configurations, same supreme quality.
However, each type is designed to perform at its best in different fields and applications.

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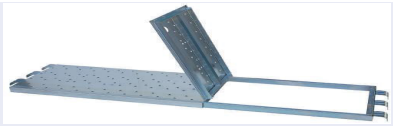
PIANOPLYWOOD

WA BUINESS



SCAFFOLDING ACCESSORIES AND COUPLINGS

Some of these accessories can make assembling and disassembling a scaffolding easier.

Product name	Weight	Photo
Galvanized platform	14KG	
Platform with trapdoor	26KG	
Galvanized ladder	8.5KG	
Galvanized toeboard	length 1,8 m 4.7KG	
Galvanized toeboard	length 1 m 2.80KG	
Scaffold pin	ø 8 weight 0.1kg	
Tubular anchorage with hook for scaffolding pipe	ø48,3x2,75mm ø20 500mm weight 1.90kg	
Base plate for scaffolding	ø40mm pipe ø140x6mm weight 0,90kg	

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SCAFFOLDING ACCESSORIES AND COUPLINGS

Product name	Weight	Photo
Eyelet for scaffolding	ø 22 mm 120-200 mm weight 0.20kg	
Anchor eye for scaffolding	ø 22 mm M12x90 mm weight 0.50 kg	
Anchor eye for scaffolding	ø 50 mm M12x90 mm weight 0.48 kg	
Anchoring plugs	ø60mm h35mm weight 0.95kg	
Base jack painted	ø38mm pipe 6,35mm pitch plate ø140x6 350mm weight 2,15kg 500mm weight 2,25kg 750mm weight 3,00kg 1000mm weight 4,00kg	
Base jack galvanized	ø38 mm 8.00 mm pitch 150x150x5 plate 350 mm weight 2.30 kg 500 mm weight 2.40 kg 750 mm weight 3.20 kg 1000 mm weight 4.25 kg	
Swivel base jack galvanized	ø38 mm pipe 8.00 mm pitch ø150x150x5 plate 500 mm weight 3.00 kg 1000 mm weight 4.90kg	

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PIANOPLYWOOD

WA BUINESS



BASE & PROPS

SINGER

PIANO



WD-141



WD-142



WD-143



WD-146A



WD-144



WD-145



WD-147

BASE PLATE

ITEM NO	DESCRIPTION	WEIGHT(KGS)
WD-141	5" x 5" SCAFFOLD BASE PLATE	0.90
WD-142	7" x 9" SHORING BASE PLATE	3.59
WD-143	7" x 7" SHORING BASE PLATE	2.90
WD-144	8" x 8" SHORING U-HEAD	5.83
WD-145	8" x 8" SHORING BASE PLATE	3.62
WD-146	5" x 5" SWIVEL BASE PLATE	1.79
WD-147	8" x 9" SHORING U-HEAD	6.27



WD-20134
1 3/8"X24" SCREW JACK
W/ BASE PLATE
5.39 KGS



WD-20131
1 3/8" SCREW JACK
2.43 KGS



WD-20130
1 3/8" SOCKET JACK
4.98 KGS



WD-20137
30" TB-JACK
9.73 KGS

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BASE & PROPS

SINGER

PIANO



WD-2000
STEEL MULTI-FUNCTION SCAFFOLD
72.57 KGS





WD-2001
STEEL GUARD RAIL ASSEMBLY
37.19 KGS



WD-720



GALVANIZED PROPS

ITEM NO	OUTER TUBE	INNER TUBE	ADJUSTABLE LENGTH
WD-720	od 60x3.5mm	od 48x3mm	1062mm - 1830mm
WD-720A	od 60x3.5mm	od 48x3mm	1690mm - 3070mm
WD-720B	od 60x3.5mm	od 48x3mm	1981mm - 3361mm
WD-720C	od 60x3.5mm	od 48x3mm	2649mm - 4029mm
WD-720D	od 60x3.5mm	od 48x3mm	3257mm - 5012mm



LIGHT DUTY PROPS

ITEM NO	OUTER TUBE	INNER TUBE	ADJUSTABLE LENGTH
WD-722	od 48x2mm	od 40x2mm	
	od 48x2.5mm	od 40x2.5mm	1000mm - 1800mm
WD-722A	od 48x2mm	od 40x2mm	
	od 48x2.5mm	od 40x2.5mm	1600mm - 2900mm
WD-722B	od 48x2mm	od 40x2mm	
	od 48x2.5mm	od 40x2.5mm	2000mm - 3600mm
WD-722C	od 48x2mm	od 40x2mm	
	od 48x2.5mm	od 40x2.5mm	2500mm - 4500mm
WD-722D	od 48x2mm	od 40x2mm	
	od 48x25mm	od 40x2.5mm	3000mm - 5500mm



FF-722

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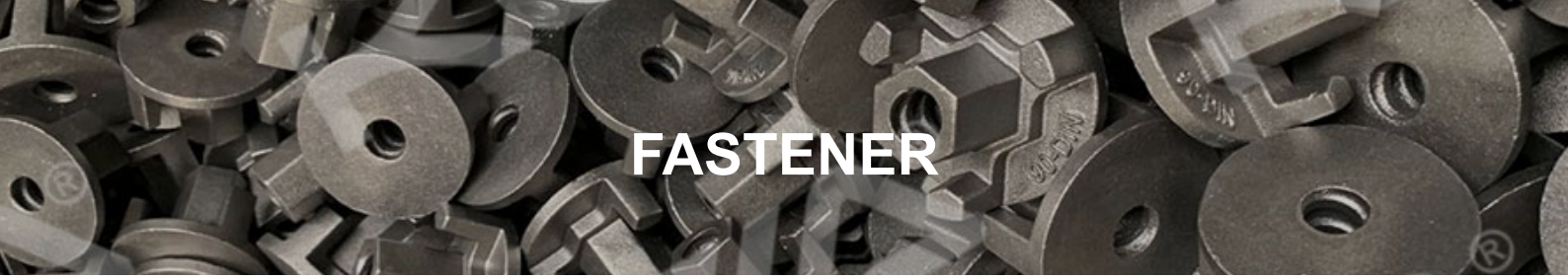
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PIANOPLYWOOD

WA BUINESS



FASTENER

Formwork Swivel Wing Nut	
Size:	D70/80/90/100/110/120/130m
Surface Finish:	Electric Galvanized, HDG, Self Color, Painted
Weight:	0.38-1.16kgs
Process:	Welding,Punching,Casted
MOQ:	As clients' requirement
Weight:	0.38-1.52kgs



#QG021001

Formwork Wing Nut	
Size:	D70/80/90/100/110/120/130m
Surface Finish:	Hot dip Galvanized/ Paint/ E-Galvanized
Material: Steel:	Q345/Q235/45# /Galvanized Steel
Process:	Precision casting, forging, pressing
Weight:	0.38-1.52kgs



#QG021002



Nut 70

#QG021003



Nut 80

#QG021004



Nut 90

#QG021005



Nut 100

#QG021006

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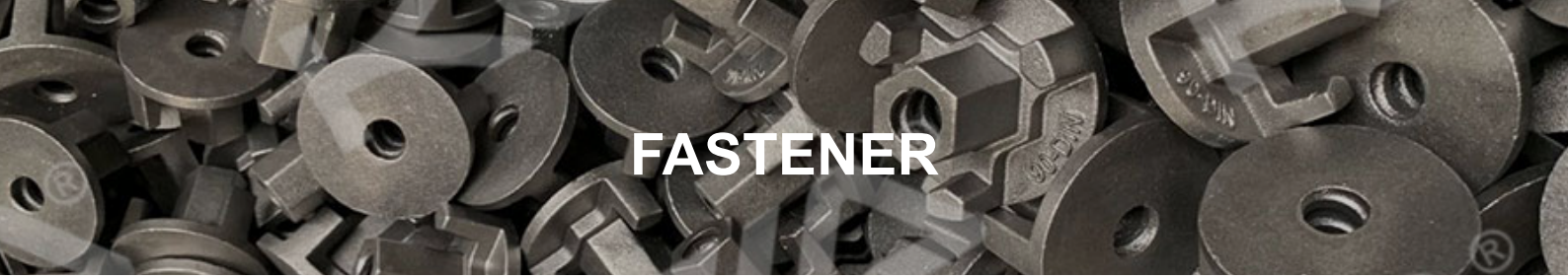
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WA BUINESS



Fork Head	
Size:	165*85mm
Surface:	Painting/Hot dip galvanized/Electro galvanized
Material:	Steel Q235



#QG021007



Scaffolding Brace Head
#QG021008



Fork Head
#QG021009



Push Pull Head
#QG021010



Push Pull Head
#QG021011

Shoring Prop Sleeve	
Tube Size:	D48mm,D60mm,D76mm
Surface:	Electro Galvanized/Self Color/Painted/HDG
Material:	Steel
Length:	200/210/230mm



#QG021012

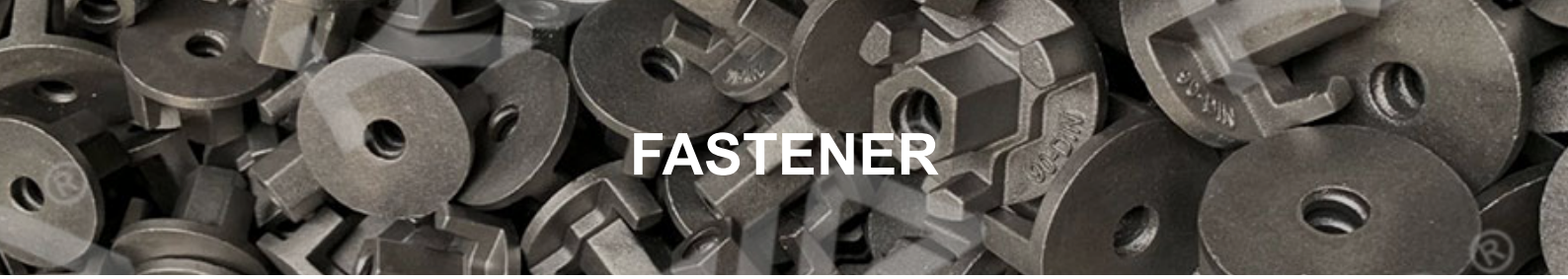
Shoring Prop Tripod	
Height:	700/750/800mm
Surface treatment:	Painting/Hot dip galvanized/Electro galvanized
Material:	Steel Q235
Adjustable Range:	According to customer's request



#QG021013

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PIANOPLYWOOD WA BUINESS



FASTENER

Formwork Tie Rod	
Size:	D15/17mm, D20/23mm
Surface Finish:	Electro Galvanized/Self Color
Surface:	Galvanized
Process:	Cold Rold/Hot Rold
Material:	Steel



#QG021014

Tie Rod Nut	
Size:	D70/80/90/100/110/120/130mm
Surface treatment:	Galvanize
Surface:	Hot dip Galvanized/ Paint
Material:	Q345/Q235/Galvanized Steel
Weight:	1.36KG



#QG021015

Formwork Water Barrier	
Size:	L110*D60mm
Surface treatment:	Electric Galvanized, HDG, Self Color, Painted
Surface:	Electric Galvanized; Hot Dip Galvanized
Material:	Q345/Q235 /Galvanized Steel
Weight:	0.44kg



#QG021016



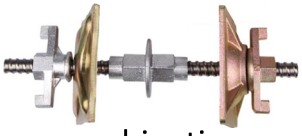
Tie Rod
#QG021017



Tie Rod Nut
#QG021018



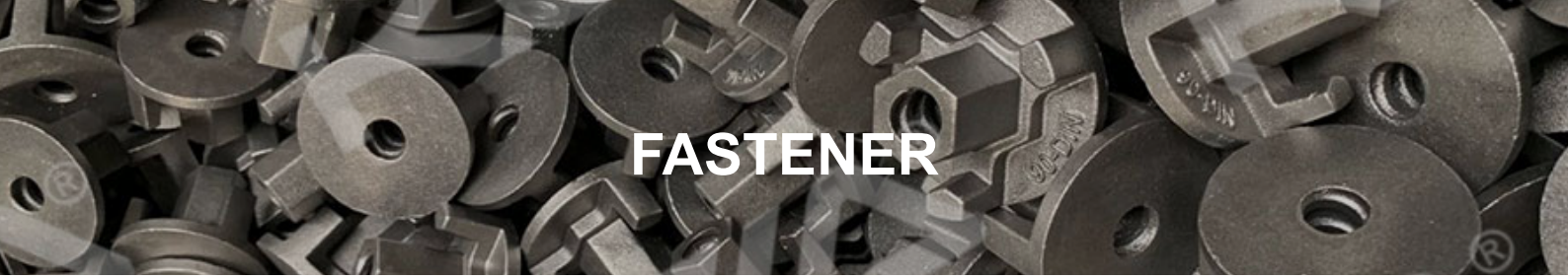
Water stop
#QG02119



combination
#QG021020

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Alignment Clamp	
Size:	Different size as per customer's request
Surface reatment:	Electro Galvanized
Weight:	4.3kg
Material:	Steel



#QG021021

Formwork Rapid Clamp	
Size:	For 4-13mm rod
Surface treatment:	Galvanized
Material:	Iron
Custom Make:	Available



#QG021022



Clamp

#QG021023



Ras To Clamp

#QG021024



Rasto Corner Clamp

#QG021025



Rasto Clamp

#QG021026

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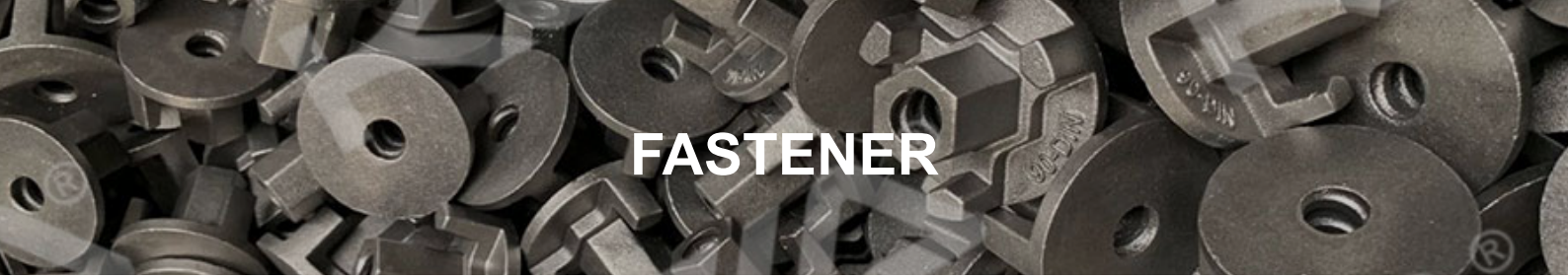
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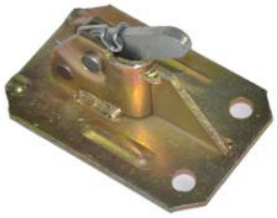
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WA BUINESS



FASTENER

Formwork Spring Clamp	
Size:	75*110*4mm
Surface reatment:	Electro Galvanized, Painting etc.
Weight:	0.42kg



#QG021027

Framax Clamp	
Customised Logo:	We can do the logo as per customer's requirement
Surface	Electro Galvanized, Hot Dip Galvanized
Process:	Casting Iron



#QG021028

Rasto Clamp	
Size:	L200, L30*170
Surface:	Electric Galvanized; Hot Dip Galvanized



#QG021029

Accessories	
Surface:	Electric Galvanized; Hot Dip Galvanized



#QG021030

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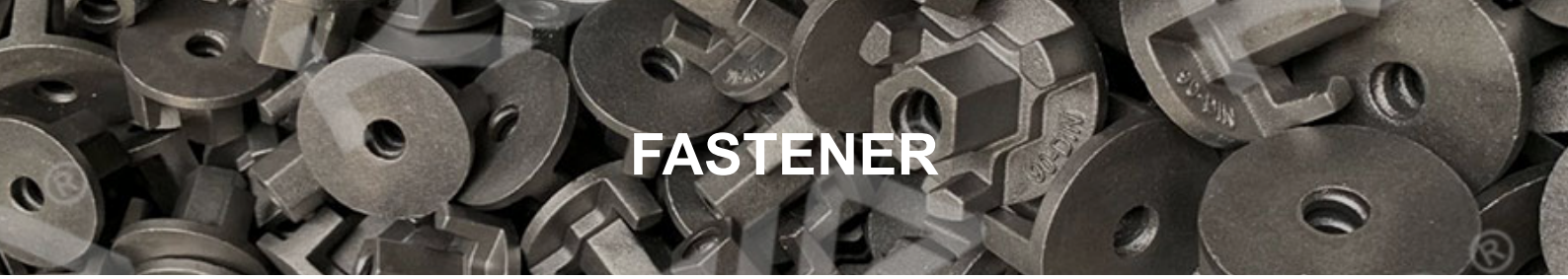
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WA BUINESS



FASTENER

Formwork Steel Cone	
Size:	Custom made
Surface :	Galvanized
Material:	Steel or iron
Weight:	0.94kg
Custom Make:	Available



#QG021031

Shoring Prop Cup	
Tube Size:	60mm,D70mm,D90mm
Length:	130/140/200/210/230mm Wall Thickness: 3.0/3.5mm
Surface	Electro Galvanized/Self Color/ Painted/Hot Dip Galvanized
Process:	Rolled Thread
Material:	Steel



#QG021032

Shoring Prop Nut	
Size:	60mm, D76mm
Surface :	Electro Galvanized/Self Color/ Painted/Hot Dip Galvanized
Process:	Casted Parts
Material:	Ductile Iron



#QG021033

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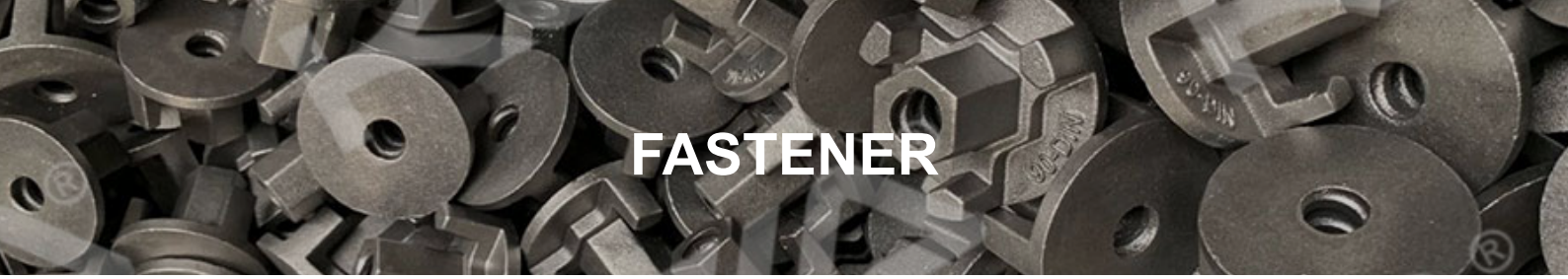
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PIANOPLYWOOD

WA BUINESS



FASTENER



WD-19301
CLAMP
4.30 KGS



WD-19302
CLAMP
3.90KGS



WD-19303
CLAMP
1.75 KGS



WD-13018
JACK NUT
0.33 KGS



WD-13133
JACK NUT
0.95 KGS



WD-13134
JACK NUT
0.61 KGS



WD-13002
JACK NUT
0.57 KGS



WD-13903
JACK NUT
0.50 KGS



WD-1306A
FORGED WING NUT
0.60 KGS/DIA 70mm



WD-13114-I
WING NUT
0.55 KGS



WD-13113-I
WING NUT
0.55 KGS



WD-13170
FORGED WING NUT
0.38 KGS/DIA 70mm



WD-13001
FORGED LEDGER
0.25 KGS



WD-13003
BOTTOM CUP
0.18 KGS



WD-13016C
ROUNG RING
0.435 KGS



WD-13016
ROUNG RING
0.48 KGS/134mmX8mm



WD-1380A
FORGED WING NUT
0.58 KGS/DIA 80mm



WD-1300A
FORGED WING NUT
0.60 KGS/DIA 100mm



WD-13110A
FORGED WING NUT
0.80 KGS/DIA 110mm



WD-13106
FORGED WING NUT
1.25 KGS/DIA 130mm

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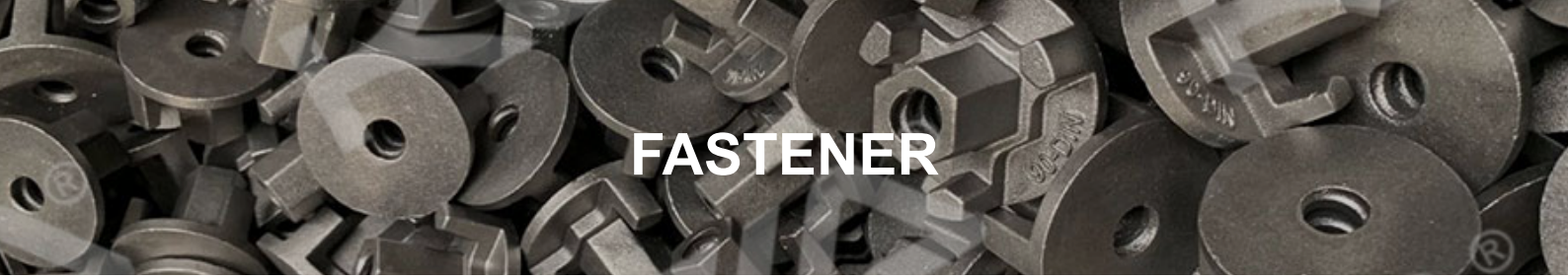
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WA BUINESS



FASTENER



WD-13190
FORGED WING NUT
0.70 KGS/DIA 90mm



WD-13172
WING NUT
0.70 KGS



WD-13115
FORGED WING NUT
1.33 KGS/DIA 150mm



WD-13102
FORGED WING NUT
1.07 KGS/DIA 120mm



WD-132101
FORGED WING NUT
1.18 KGS/DIA 120mmX120mm



WD-13112
FORGED WING NUT
1.22 KGS/DIA 100mmX140mm



WD-13105
FORGED WING NUT
1.35KGS/DIA 130mm



WD-13113
FORGED WING NUT
1.08 KGS/DIA 120mm



WD-13011
CASTING-STEEL PROP NUT
0.365 KGS



WD-13012
CASTING-STEEL PROP NUT
0.78 KGS



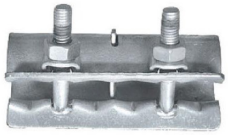
WD-13107
TEMPLATE HOOK
0.65 KGS



WD-0941
ROUND RING HALF COUPLER
48.3mm 1.20KGS



WD-9916
ROUND RING COUPLER
48.3mm 1.20 KGS



WD-0108
SLEEVE COUPLER
48.3mm 1.12KGS



WD-0109
SLEEVE COUPLER
48.3mmX48.3mm 1.09KGS



WD-0106
PRESSED INNER JOINT PIN
48.3mm 0.75 KGS



WD-0107
SLEEVE COUPLER
48.3mm 1.20KGS



WD-0030
IRON PLATE SWIVEL COUPLER
48.3mm 1.45 KGS



WD-0207
V COUPLER
48.3mm 1.03KGS

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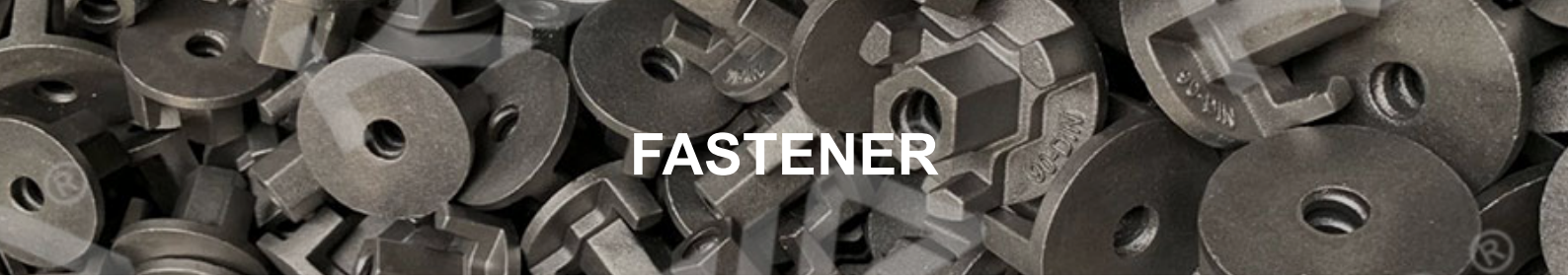
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FASTENER

Shoring Prop Pin	
Diameter:	D12-D16
Surface treatment:	Black, Galvanized, HDG
Weight:	0.335-0.85 kg



#QG021034



Pin 10
#QG021035



R Pin
#QG021036



Pin 14
#QG021037

Joint pin for scaffolding	
Weight:	670/680/725
Scope of use:	With 48/60 steel pipe





#QG021038

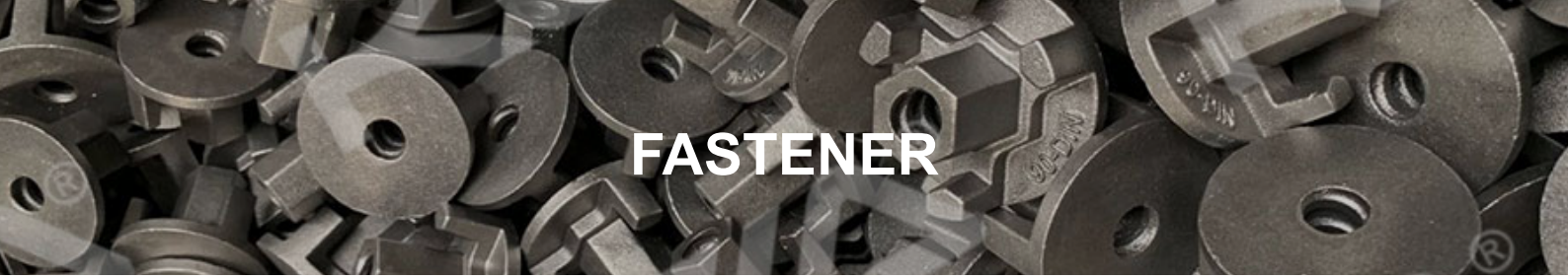
Welded pipe	
Size:	33*3*120mm
Weight:	1890g
Scope of use:	200*150*35*4.75mm



#QG021039

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PIANOPLYWOOD
WA BUINESS



Scaffolding coupler/clamp	
Size:	48/48，48/60，60/60
Surface treatment:	Electro galvanized, HDG, Painted
Color:	Sliver/Yellow/customized



#QG021041

Scaffolding coupler/clamp	
Size:	48/48，48/60，60/60
Surface treatment:	galvanized
Color:	Sliver



#QG021042

Scaffolding coupler/clamp	
Size:	48/60，60/60
Surface treatment:	Electro galvanized, HDG, Painted
Color:	Sliver/Yellow/customized



#QG021043

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COUPLERS



WD-0001
GERMAN TYPE DOUBLE COUPLER
48.3mm 1.25 KGS



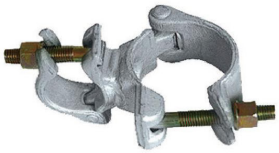
WD-0002
GERMAN TYPE SWIVEL COUPLER
48.3mm 1.45 KGS



WD-0035
GERMAN TYPE HALF COUPLER
48.3mm 0.71 KGS



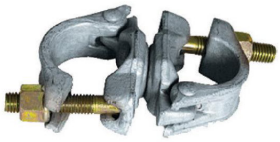
WD-0016
GERMAN TYPE SWIVEL COUPLER
76mmX48.3mm76mm 1.90 KGS



WD-0015
GERMAN TYPE DOUBLE COUPLER
76mmX48.3mm 1.85 KGS



WD-0016B
GERMAN TYPE HALF COUPLER
76mm 1.20 KGS



WD-0002P
GERMAN TYPE SWIVEL COUPLER
48.3mm 1.30 KGS



WD-0001P
GERMAN TYPE DOUBLE COUPLER
76mmX48.3mm 1.10 KGS



WD-0901
AMERICAN TYPE DOUBLE COUPLER
48.3mm 1.60 KGS



WD-0900
AMERICAN TYPE SWIVEL COUPLER
48.3mm 1.75 KGS



WD-0011
GERMAN TYPE DOUBLE COUPLER
60mmX48.3mm 1.50 KGS



WD-0010B
GERMAN TYPE HALF COUPLER
60mm 0.85 KGS



WD-0005
GERMAN TYPE DOUBLE COUPLER
50.8mm 1.45 KGS



WD-0006
GERMAN TYPE SWIVEL COUPLER
50.8mm 1.60 KGS



WD-0004
LIGHT SWIVEL COUPLER
48.3mm 1.25 KGS



WD-0003
LIGHT DOUBLE COUPLER
48.3mm 1.05 KGS



WD-0021
GERMAN TYPE DOUBLE COUPLER
42mmX48.3mm 1.00 KGS



WD-0022
GERMAN TYPE SWIVEL COUPLER
42mmX48.3mm 1.20 KGS



WD-0021A
GERMAN TYPE DOUBLE COUPLER
42mmX50.8mm 1.05 KGS



WD-0022D
GERMAN TYPE SWIVEL COUPLER
42mmX50.8mm 1.10 KGS



WD-0023
GERMAN TYPE DOUBLE COUPLER
42mmX42mm 1.10 KGS



WD-0024
GERMAN TYPE SWIVEL COUPLER
42mmX42mm 1.10 KGS



WD-0101
BRITISH TYPE DOUBLE COUPLER
48.3mm 1.07 KGS



WD-0102
BRITISH TYPE SWIVEL COUPLER
48.3mm 1.25 KGS

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PIANOPLYWOOD

WA BUINESS



COUPLERS



WD-0901
AMERICAN TYPE DOUBLE COUPLER
48.3mm 1.60 KGS



WD-0900
AMERICAN TYPE SWIVEL COUPLER
48.3mm 1.75 KGS



WD-0904
AMERICAN TYPE HALF COUPLER
48.3mm 0.85 KGS



WD-0904C
SIDE-BY-SIDE COUPLER
48.3mmX42mm 0.84 KGS



WD-0902
FIXED GIRDER COUPLER
48.3mm 1.42 KGS



WD-0903
SWIVEL GIRDER COUPLER
48.3mm 1.60 KGS



WD-0908T
AMERICAN TYPE SWIVEL COUPLER
89mmX48.3mm 2.95 KGS



WD-0907T
AMERICAN TYPE DOUBLE COUPLER
89mmX48.3mm 2.60 KGS



WD-0909
AMERICAN TYPE HALF COUPLER
89mm 2.10 KGS



WD-0909A
COUPLER WITH WELDED BOLT
89mm 2.35 KGS



WD-0201
AUSTRALIAN TYPE DOUBLE COUPLER
48.3mm 1.12 KGS



WD-0200
AUSTRALIAN TYPE SWIVEL COUPLER
48.3mm 1.30KGS



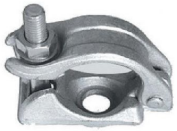
WD-0204
AUSTRALIAN TYPE HALF COUPLER
48.3mm 0.60 KGS



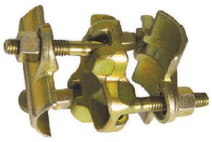
WD-0206
AUSTRALIAN TYPE SWIVEL COUPLER
50.8mm 1.20 KGS



WD-0203
AUSTRALIAN TYPE DOUBLE COUPLER
50.8mm 1.08 KGS



WD-0205
AUSTRALIAN TYPE HALF COUPLER
50.8mm 0.60 KGS



WD-0801
ITALIAN FORGED DOUBLE COUPLER
48.3mm 1.20 KGS



WD-0802
ITALIAN FORGED SWIVEL COUPLER
X48.3mm 1.53 KGS



WD-0809
ITALIAN PRESSED DOUBLE COUPLER
42mmX50.8mm 1.35 KGS



WD-0810
ITALIAN PRESSED SWIVEL COUPLER
X50.8mm 1.54 KGS



WD-0901A
WEDGE HEAD DOUBLE COUPLER
48.3mm 1.20 KGS



WD-0900A
WEDGE HEAD SWIVEL COUPLER
42mmX42mm 1.37 KGS



WD-0035A
WEDGE HEAD HALF COUPLER
48.3mm 0.60 KGS



WD-0051
COUPLER WITH WELDED PLATE
48.3mm 2.10 KGS

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PIANOPLYWOOD

WA BUINESS



STACKING PALLETS FOR PROPS

Name	Description	Photo
Paint coated container for props	Type A 1100x1500mm h900 weight 27kg Type B 920x1280mm h900 weight 25kg	
Galvanised container for props	690x1010mm h720 weight 25kg	
Heavy galvanized sheet metal container	850X1250mm h860mm peso 75kg	
Wire mesh container galvanized	800x1300mm H 875mm Capacity 1-3 Ton weight 50kg	
Container with galvanized printed mesh walls	800x1500 h800 weight 70kg	
Galvanised container for disassemblable feet props	600x1100mm h360+1000mm weight 29+15kg	

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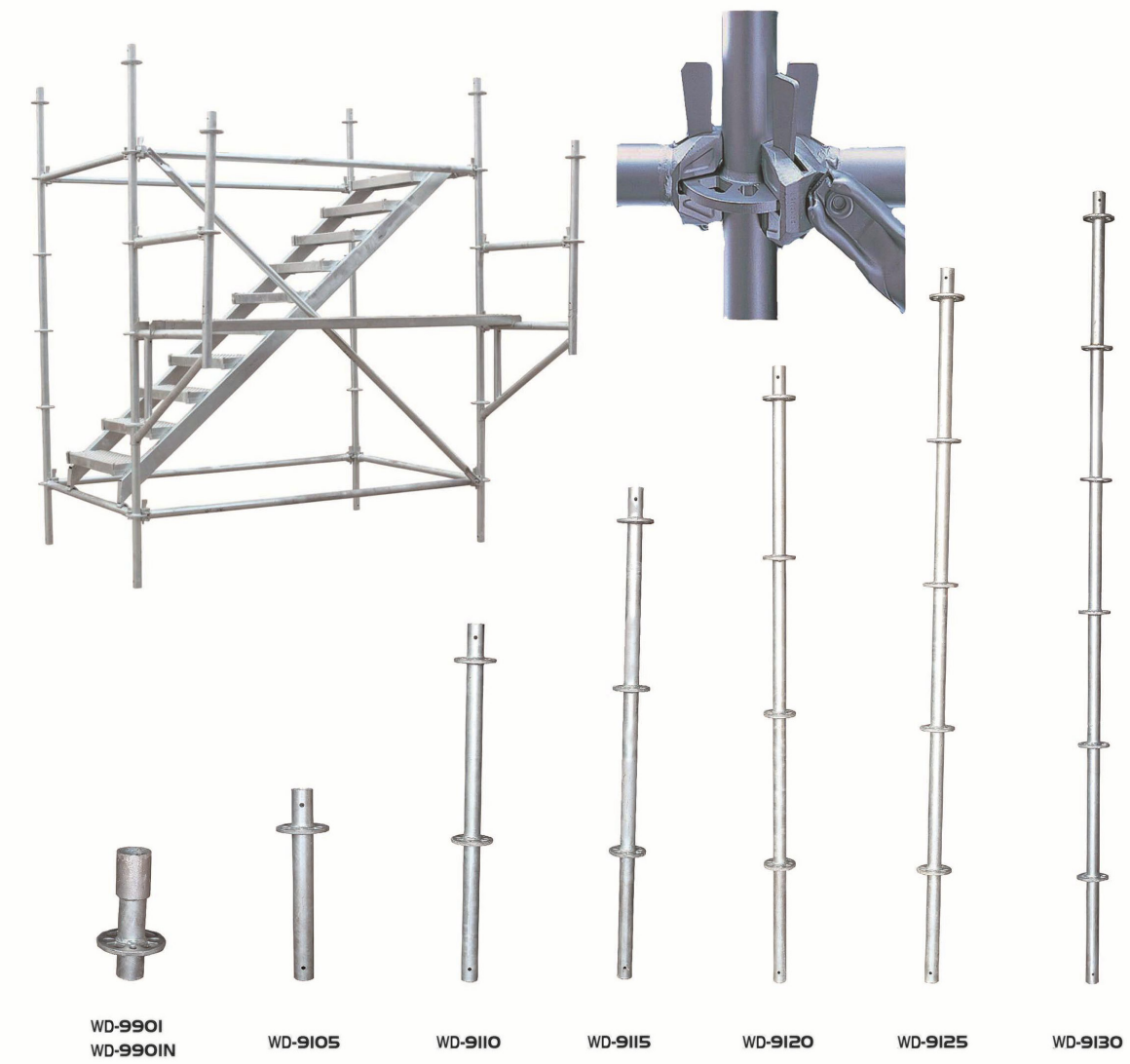
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PIANOPLYWOOD

WA BUINESS

RING LOCK SYSTEM



WD-9901
WD-9901N
WD-9105
WD-9110
WD-9115
WD-9120
WD-9125
WD-9130

VERTICAL POST

ITEM NO	DESCRIPTION	WEIGHT(KGS)
WD-9901	9" STARTER COLLAR	1.60
WD-9901N	17.5" STARTER COLLAR	2.92
WD-9105	0.5m VERTICAL	3.35
WD-9110	3'3" VERTICAL WITH SPIGOT	5.71
WD-9115	4'9" VERTICAL WITH SPIGOT(1.5m)	8.09
WD-9120	6'6" VERTICAL WITH SPIGOT	10.45
WD-9125	8'2" VERTICAL ITH SPIGOT(2.5m)	12.81
WD-9130	9'9" VERTICAL WITH SPIGOT	15.19

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WA BUINESS



RING LOCK SYSTEM



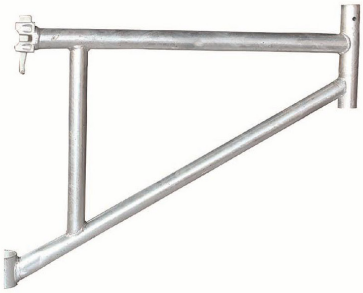
TRUSS LEDGERS

ITEM NO	DESCRIPTION	WEIGHT(KGS)
WD-131524	5' TRUSS LEDGER	9.99
WD-131829	6' TRUSS LEDGER	12.09
WD-132134	7' TRUSS LEDGER	14.15
WD-132438	8' TRUSS LEDGER	16.23
WD-132743	9' TRUSS LEDGER	18.32
WD-133048	10' TRUSS LEDGER	21.23
WD-131090	1.09M TRUSS LEDGER	7.27
WD-131290	1.29M TRUSS LEDGER	8.70
WD-131570	1.57M TRUSS LEDGER	10.44
WD-132070	2.07M TRUSS LEDGER	13.93



HORIZONTAL

ITEM NO	DESCRIPTION	WEIGHT(KGS)
WD-130305	1' LOAD BEARER	1.97
WD-130488	1' 6" LOAD BEARER	2.54
WD-130610	2' LOAD BEARER	3.13
WD-130671	2' 2" SINGLE LEDGER	3.35
WD-130732	2' 4" SINGLE LEDGER	3.51
WD-130792	2' 6" SINGLE LEDGER	3.70
WD-130914	3' SINGLE LEDGER	4.27
WD-131097	3' 6" SINGLE LEDGER	4.85
WD-131128	3' 7" SINGLE LEDGER	4.99
WD-131219	4' SINGLE LEDGER	5.43
WD-131311	4' 3" SINGLE LEDGER	5.72
WD-131524	5' SINGLE LEDGER	6.58
WD-131585	5' 2" SINGLE LEDGER	6.80
WD-131829	6' SINGLE LEDGER	7.75
WD-132103	6' 9" SINGLE LEDGER	8.64
WD-132134	7' SINGLE LEDGER	8.90
WD-132438	8' SINGLE LEDGER	10.06
WD-132591	8' 5" SINGLE LEDGER	10.54
WD-132621	8' 6" SINGLE LEDGER	10.64
WD-132743	9' SINGLE LEDGER	11.21
WD-133048	10' SINGLE LEDGER	12.37
WD-133078	10' 1" SINGLE LEDGER	12.46
WD-130730	0.73M SINGLE LEDGER	3.62
WD-131090	1.09M SINGLE LEDGER	4.96
WD-131290	1.29M SINGLE LEDGER	5.72



BOARD BRACKET

ITEM NO	DESCRIPTION	WEIGHT(KGS)
WD-96-01	1# BOARD SIDE BRACKET W/SPIGOT	4.37
WD-96-02	2# BOARD SIDE BRACKET W/SPIGOT	6.79
WD-96-03	3# BOARD SIDE BRACKET W/SPIGOT	8.90
WD-960390	0.39M SIDE BRACKET	5.52
WD-960730	0.73M SIDE BRACKET	9.44
WD-961090	1.09M SIDE BRACKET	8.90

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PIANOPLYWOOD

WA BUINESS



PROFESSIONAL LADDER







The stairs are a safe, quick and functional solution for professional, intensive domestic and hobby work .
This tool moves without the slightest effort and when you no longer need to use it, fold up very easily making it take up little space.
It is used for finishing or maintenance work at heights that range from 1 to 7 meters.

Feature:

Folding Ladders, Insulation Ladders, Telescopic Ladders
1.Extremely durable, novel appearance,elegant and beautiful.
2.Wrap around internal spreaders for strength and durability.
3. Non marring slip resistant heavy duty shoes.
4.High strength,impact resistance,high safety performance.

size:

Customized Size

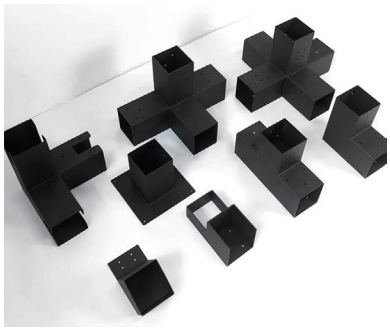
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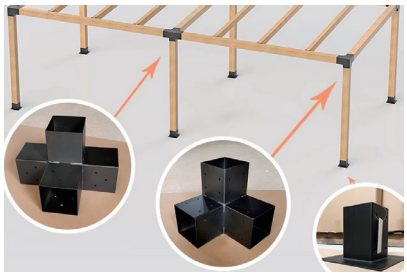
PIANOPLYWOOD
WA BUINESS



HARDWARE CONNECTORS

PRODUCT
PERGOLA BRACKETS







Matt Black:

This Pergola Bracket is powder-painted, ensuring superior coating tightness and better corrosion resis-tance.The use ofsuch protected lements is permitted everywhere that is periodically exposed to atmospheric precipitation (rain, snow). You can choose powder coated white color or clear paint.

Modern Design

Heavy Duty Pergola Bracket is perfect for a variety of construction proiects, including decking, shed bases, pergolas, gazebos.

Wide Range of Apiceations

These perepla brackets for outdoor pereolas maybe used foravanietyof buildimg projects,such a gazebos,patio pergolas,sheds,garden fumiture,wooder constructions for the house, balcony, courtyard, and other frameworks.

Build with onfdeance

These perepla brackets are necesary for constructing a sturdy structure that will survive for many years,These brackets offer improved stabiity for wooden bulding projects at home or in the industrial and commercial sectors since they are strong and dependable.

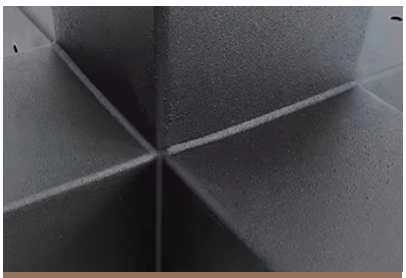
ADVANTAGE



Integrated molding will not crack



High quality materials, the welding is smooth, flawless



Coated with anti-scratch, anti-rust frosted paint

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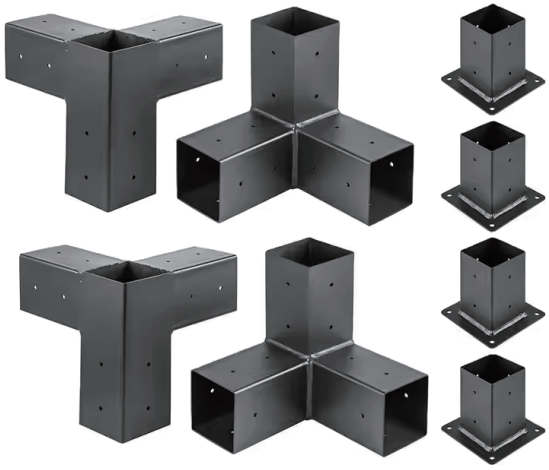
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HARDWARE CONNECTORS

PRODUCT
PERGOLA BRACKETS



Product Description

Support customization & Best Quality

For this product, we have multiple styles, base, 2-way, 3-way, 4-way, 5-way, etc.

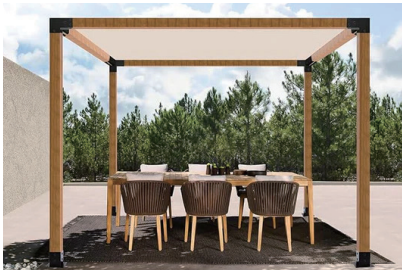
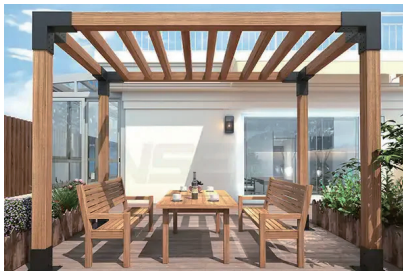
There are also various uses, such as outdoor pavilions, sheds, fences, etc.

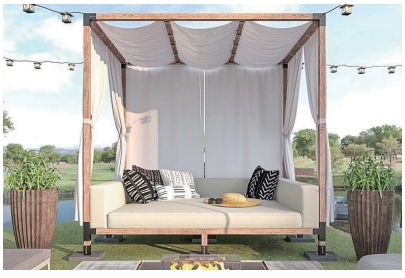
- Weather-proof durability
- Precision laser-crafting
- Flawless welding
- High-quality steel

APPLICATION








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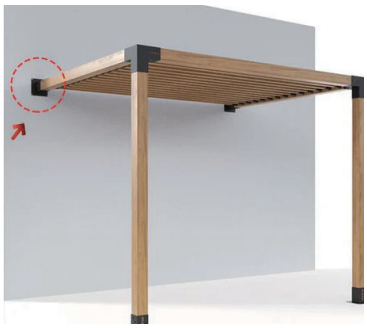
BASE BRACKET

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BRACKET-001

BASE ONE PERGOLA BRACKET | BASE BRACKET

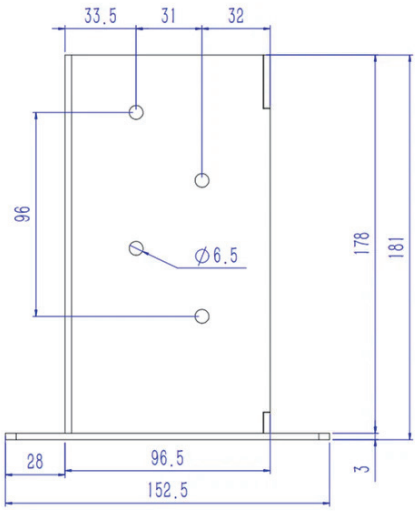






PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 90.5 mm/153 x 153 mm
Arm Opening (Exterior):	96.5 x 96.5 mm/ 159 x 159 mm
Arm Height:	181 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	1.62 kg/2.71 kg
Fastening Holes:	6.5 mm
Securing Holes:	10 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization



FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

EASY INSTALLATION

Pre-drilled holes & accessories for quick installation



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PIANOPLYWOOD

WA BUINESS



2-ARM L PERGOLA BRACKET

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BRACKET-002
2-ARM L PERGOLA BRACKET







PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 90.5 mm
Arm Opening (Exterior):	96.5 x 96.5 mm
Arm Height:	181 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	2.93 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization

FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

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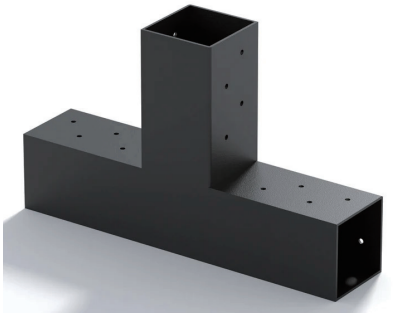
WA BUINESS

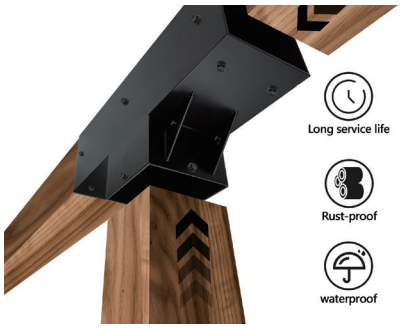


T SHAPE PERGOLA BRACKET

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BRACKET-003
T SHAPE PERGOLA BRACKET







PRODUCT DIMENSIONS

Arm Opening (Interior):	91.5 x 91.5 mm
Arm Opening (Exterior):	97.5 x 97.5 mm
Arm Height:	181 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	4.06 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization

FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

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PIANOPLYWOOD

WA BUINESS

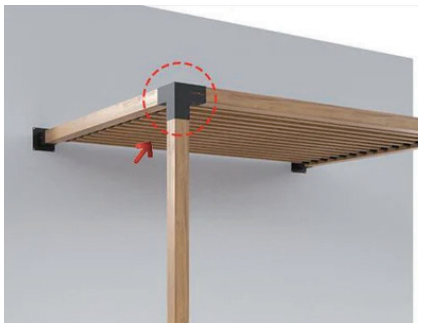


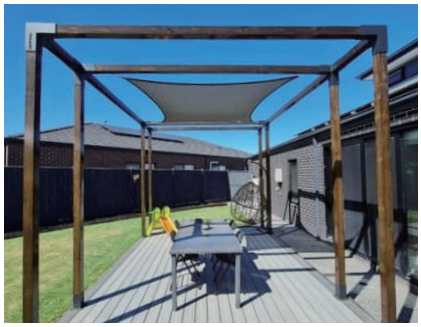
3 ARM PERGOLA BRACKET

The illustration is for display purposes only, and customized color and size requests are acceptable.

BRACKET-004
3 ARM PERGOLA BRACKET | CORNER BRACKET

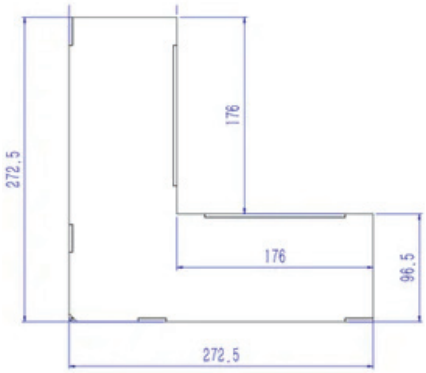






PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 90.5 mm/153 x 153 mm
Arm Opening (Exterior):	96.5 x 96.5 mm/ 159 x 159 mm
Arm Height:	181 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	3.76 kg / 6.25 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization



FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

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PIANOPLYWOOD WA BUINESS

4 ARM PERGOLA BRACKET

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BRACKET-005

4 ARM PERGOLA BRACKET | EXTENSION BRACKET

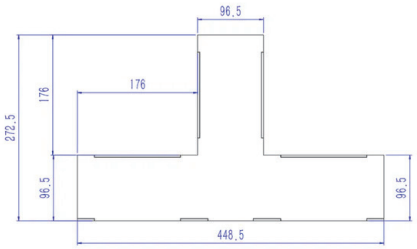






PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 90.5 mm/153 x 153 mm
Arm Opening (Exterior):	96.5 x 96.5 mm/ 156 x 156mm
Arm Height:	181 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	4.83 kg / 7.93 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization



FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

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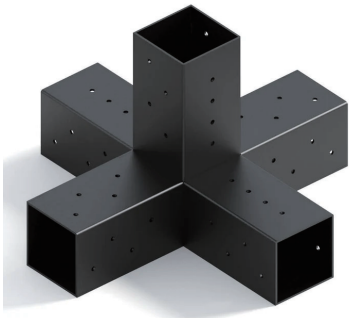
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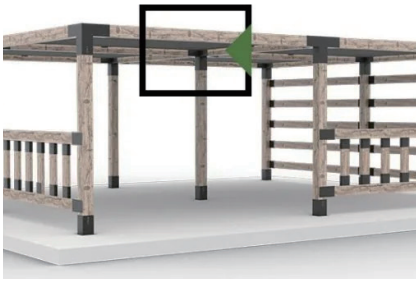
WA BUINESS

5 ARM PERGOLA BRACKET

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BRACKET-006
5 ARM PERGOLA BRACKET







PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 90.5 mm
Arm Opening (Exterior):	96.5 x 96.5 mm
Arm Height:	181 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	5.89 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization

FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

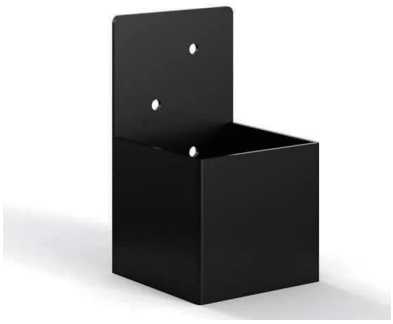
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POST WALL BRACKET

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BRACKET-007
POST WALL BRACKET

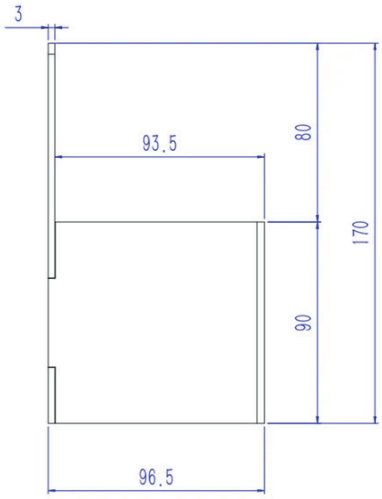






PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 90.5 mm
Arm Opening (Exterior):	96.5 x 96.5 mm
Arm Height:	171 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	0.70 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization



FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

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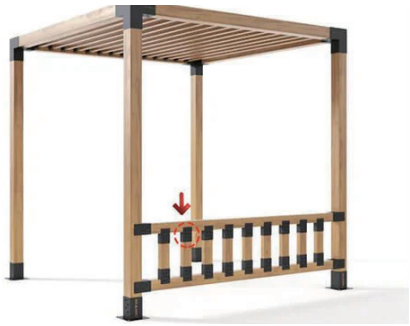
WA BUINESS

SIDE BRACKET

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BRACKET-008
SIDE BRACKET

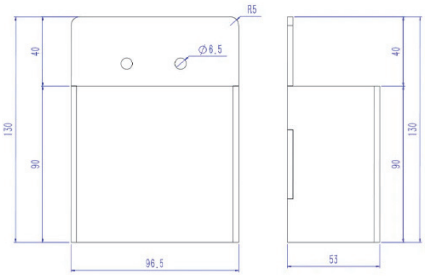






PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 47 mm
Arm Opening (Exterior):	96.5 x 53 mm
Arm Height:	130 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	0.56 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization



FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

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RAFTER BRACKET

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BRACKET-009
RAFTER BRACKET

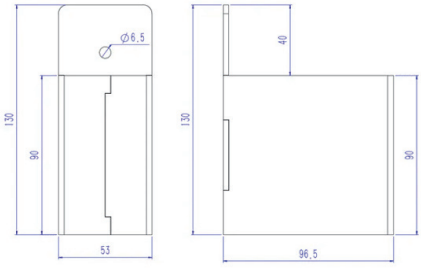






PRODUCT DIMENSIONS

Arm Opening (Interior):	90.5 x 47 mm / 142 x 47 mm
Arm Opening (Exterior):	96.5 x 53 mm / 148 x 53mm
Arm Height:	130 mm or Customized
Thick:	3 mm
Material:	Q235 steel
Weight:	0.55 kg / 0.90 kg
Fastening Holes:	6.5 mm
Color:	Galvanization Black / Silver-gray / Golden / Color/ customized Other agents coating Black / Green / Brown / Customized
Surface Treatment:	• Anti-rust coating powder Thickness≈ 0.1mm (Polyester resin & Titanium dioxide & Barium sulfate & Curing agent) • Galvanization



FEATURES AND BENEFITS

- Weather-resistant coating ensures durability in all weather conditions
- Precisely crafted using laser-cutting, bending, and welding techniques
- The welding is smooth, flawless, and coated with anti-scratch, anti-rust frosted paint
- Q235 iron (GB/T 13912-2020) provides strength and durability

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BRACKET

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PRODUCT BRACKETS

PERGOLA ROOF RAFTER BRACKET-009

PRODUCT DIMENSIONS

Width:	44.5 mm
Depth:	139.5 mm
Height:	141 mm
Thick:	~2.0 mm
Open at top:	41 x 139 mm
Hole size:	6.35 mm
Weight:	0.9 kg

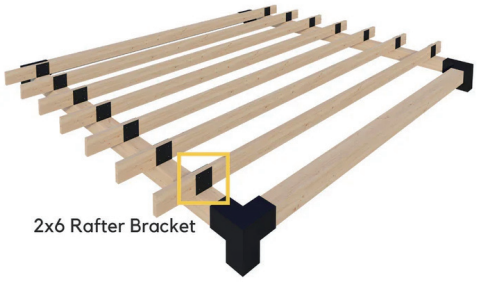
Weather-proof durability

Precision laser-crafting

Flawless welding

High-quality steel





PERGOLA INSERT BRACKET-010

PRODUCT DIMENSIONS

Width:	44.5 mm
Depth:	51 mm
Height:	141 mm
Thick:	~2.0 mm
Open at top:	41 x 139 mm
Hole size:	6.35 mm
Weight:	0.34kg

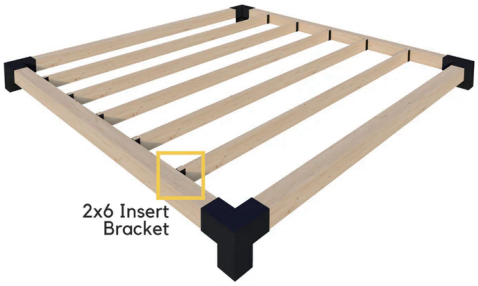
Weather-proof durability

Precision laser-crafting

Flawless welding

High-quality steel





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BRACKET

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PRODUCT BRACKETS

MIDDLE HANGER BRACKET-011

PRODUCT DIMENSIONS

Width:	148 mm
Depth:	148 mm
Height:	148 mm
Thick:	~2.6 mm
Inner dimensions of arm:	143 x 143 mm
Hole size:	6.35 mm
Weight:	1.8 kg

Weather-proof durability

Precision laser-crafting

Flawless welding

High-quality steel



PERGOLA ROOF RAFTER 45° ANGLE BRACKET-012

PRODUCT DIMENSIONS

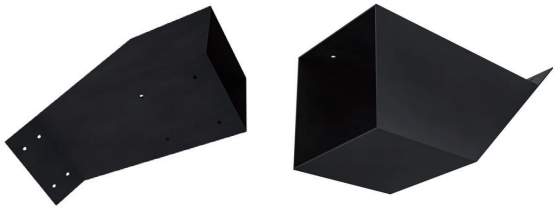
Width:	148 mm
Depth:	148 mm
Height:	front 296 mm,back148mm
Thick:	~2.6 mm
Open at top:	143 x 143 mm
Hole size:	6.35 mm
Weight:	3.6 kg

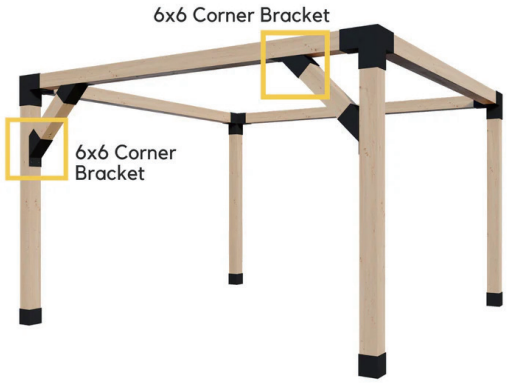
Weather-proof durability

Precision laser-crafting

Flawless welding

High-quality steel





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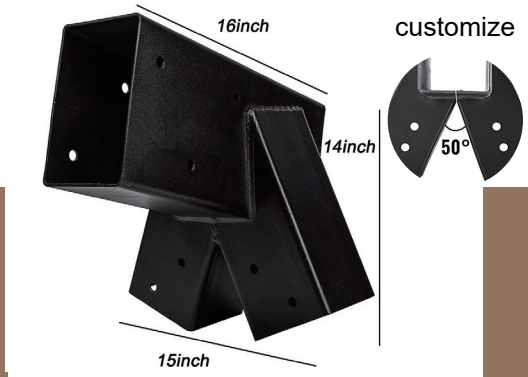
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SWING BRACKET

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PRODUCT
SWING BRACKET-013



SWING BRACKET

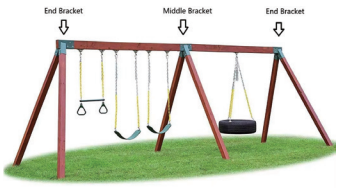
You can customize the size,angle,and color you want. It is sturdy and durable. It is also a good choice for DIY projects.

Material	Q235 steel
Size	L:100mm/or customized
Single gross weight	10kg
Single package size	50 X 50 X 50 cm

PRODUCT ADVANTAGES

- Easy to install
- Weather-proof durability
- High quality steel material
- High strength

APPLICATION

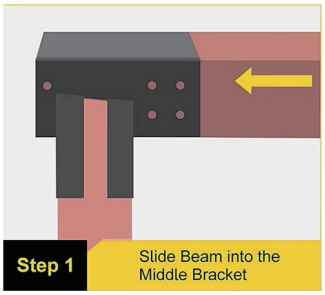


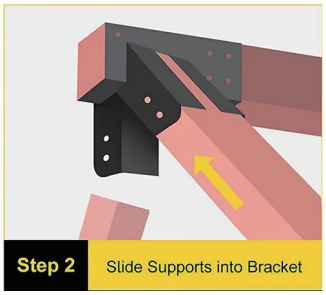


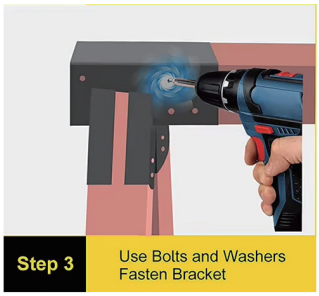


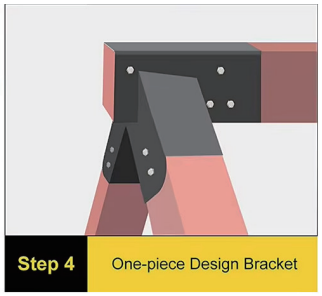


INSTALLATION









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MORE STYLES AVAILABLE

PRODUCT BRACKETS



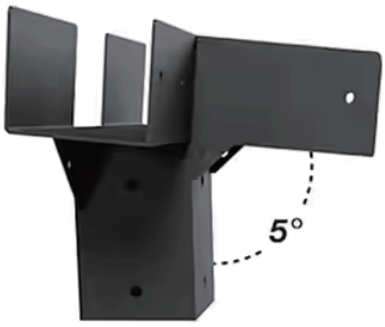
Brackets-014



Brackets-015



Brackets-016



Brackets-017



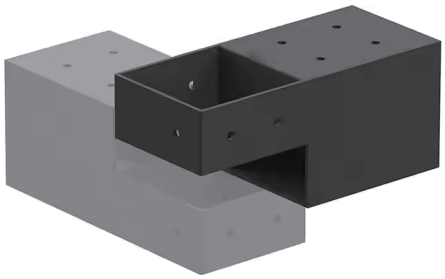
Brackets-018



Brackets-019



Brackets-020



Brackets-021



Brackets-022

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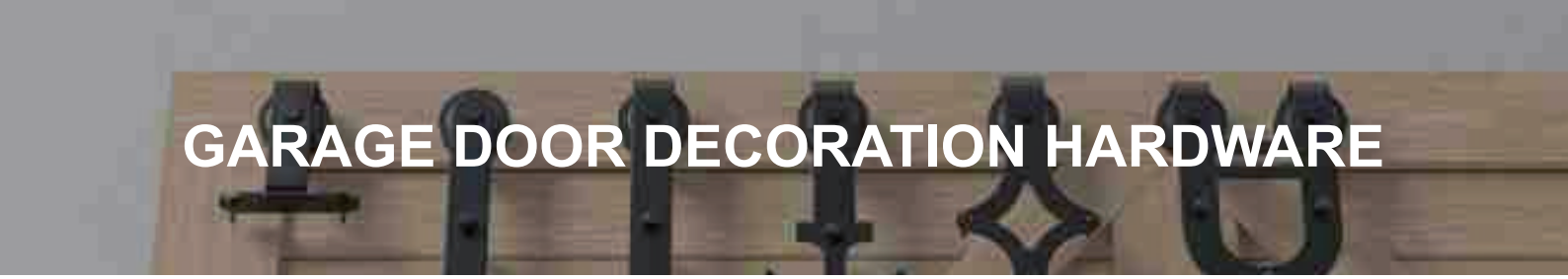
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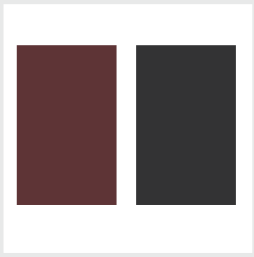


GARAGE DOOR DECORATION HARDWARE

PRODUCT
GARAGE DOOR DECORATION HARDWARE




CKMJL001




CKMLJ004



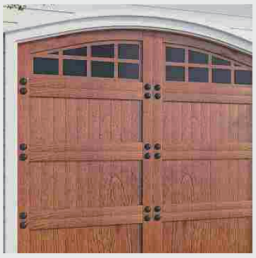

CKMJL002




CKMJL005




CKMJL003

CKMJL006

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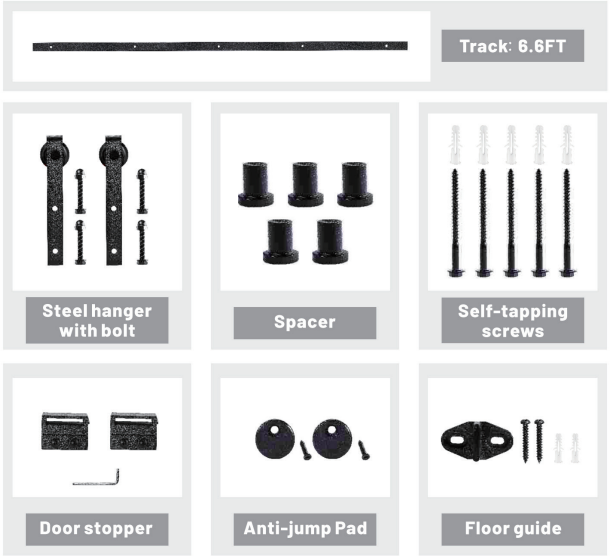
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WA BUINESS

SLIDING BARN DOOR HARDWARE

PRODUCT
SLIDING BARN DOOR HARDWARE





INSTALLATION









APPLICATION







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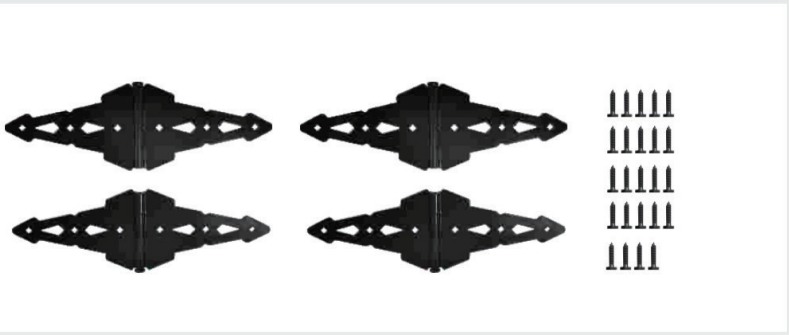


FENCE GATE HARDWARE

PRODUCT
FENCE GATE HARDWARE



Latch

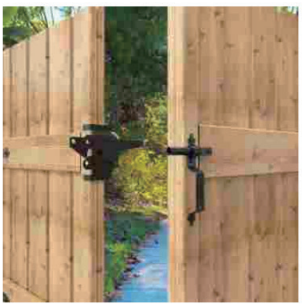


Hinge(10")



Door drop rod(24")

APPLICATION









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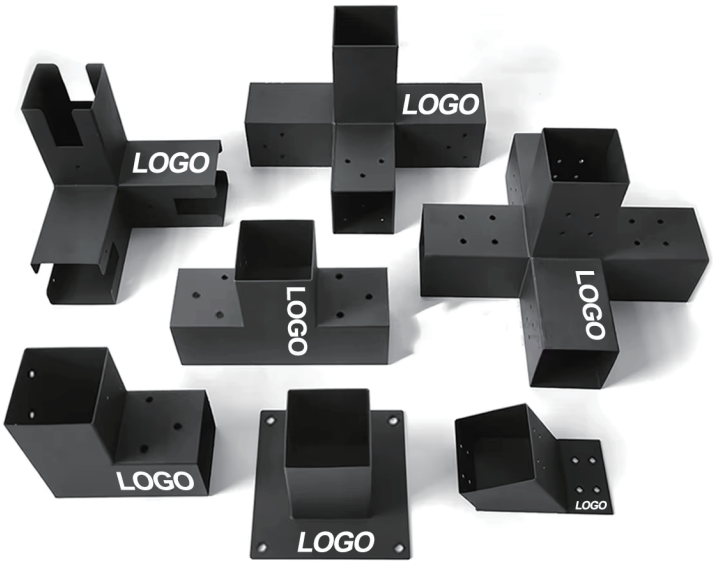
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WA BUINESS



HARDWARE CONNECTORS

LOGO CUSTOMIZATION



Logo Customization

A logo is the core part of a brand image and an identifying symbol that indicates the characteristics of things.

Customizable logo on the product to create your own brand product.

Custom logos require a minimum order quantity, which can be negotiated with us.

PACKAGING AND TRANSPORTATION









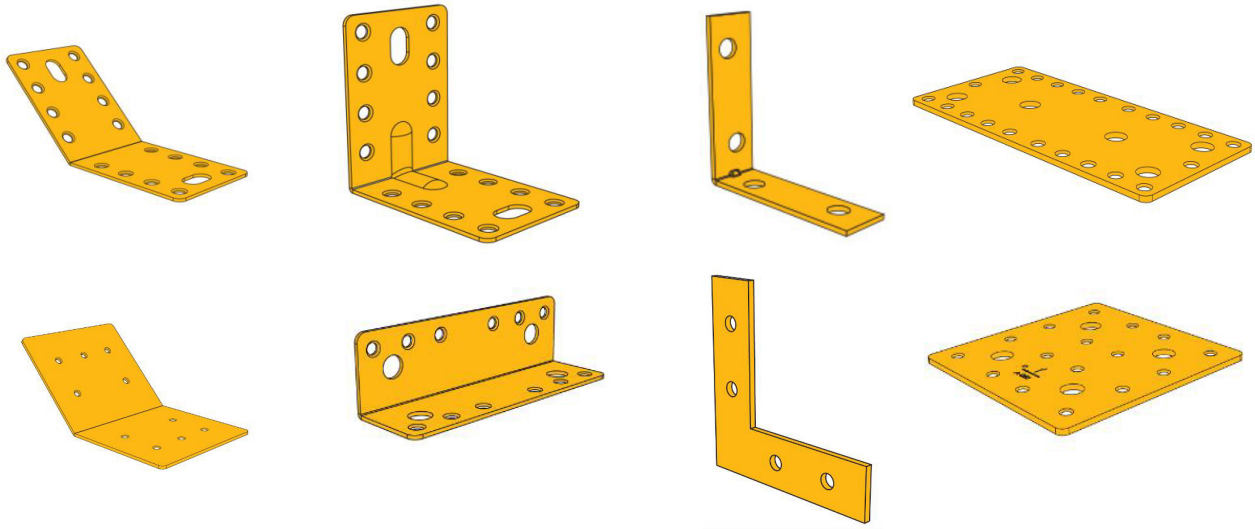
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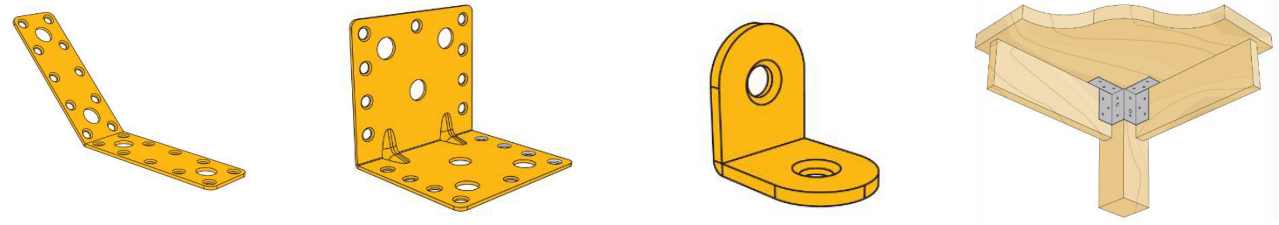
PIANOPLYWOOD WA BUINESS



WOODEN CONNECTOR

Material:steel , galvanized sheet , stainless steel 304
Color: Zinc , powder coat, hot-dip galvanized,blackening, chrome…
Surface treatment: Yellow Zinc Plating
Process: Stamping , Machining, welding, bending, milling, CNC lathe…
USE: Furniture fitting, construction hardware ,auto,machine…





מעלות 135 זויות	מעלות 90 זוויות	ביסא זווית	מחברים
135 degree angles	90 degree angles	chair angle	authors

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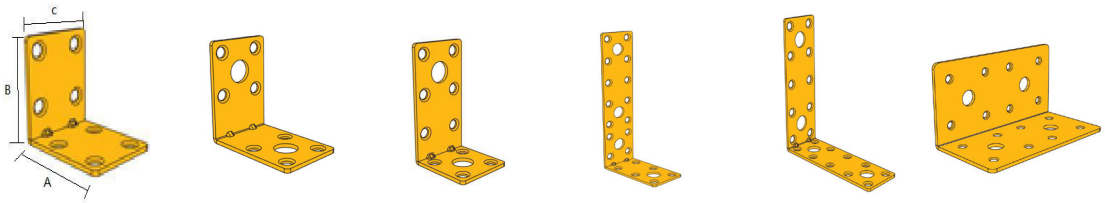
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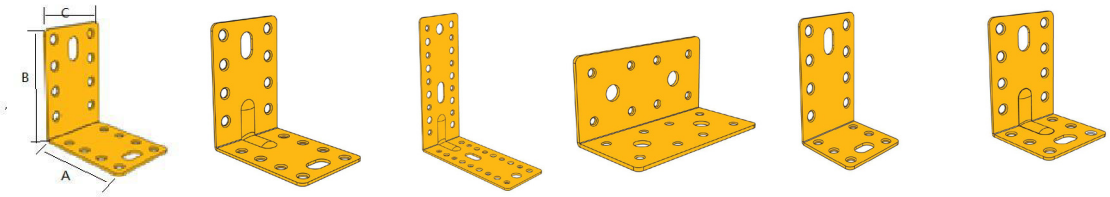
WOODEN CONNECTOR

PRODUCT
90 DEGREE ANGLES

PIANO



NO.	QA-007	QA-008	QA-009	QA-010	QA-011	QA-028
Thinkess	2	2	2	2	2	3
A	40	50	35	60	100	70
B	40	50	65	14	100	70
C	34	34	34	34	34	140



NO.	QA-025	QA-026	QG-027	QA-028	QA-040	QA-041
Thinkess	2	2	2	3	2	2
A	90	90	150	70	60	60
B	90	90	150	70	90	90
C	65	65	65	140	65	65

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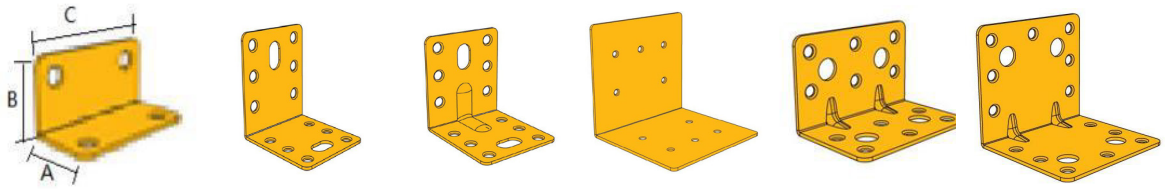
WA BUINESS



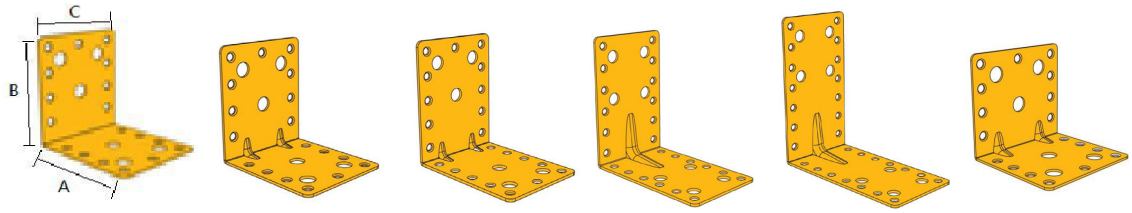
WOODEN CONNECTOR

PRODUCT
90 DEGREE ANGLES

PIANO



NO.	QA-090	QA-042	QA-024	QA-080	QA-101	QA-103
Thinkess	2	2	2	3	2	2
A	30	70	70	120	50	70
B	30	70	70	120	50	70
C	65	65	65	132	80	80



NO.	QA-104	QA-105	QA-106	QA-107	QA-108	QA-116
Thinkess	2	2	2.5	2.5	2.5	2
A	90	90	105	125	150	90
B	90	90	105	125	150	90
C	80	80	80	80	80	100

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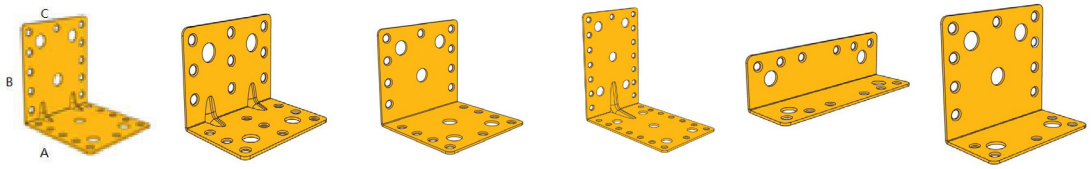
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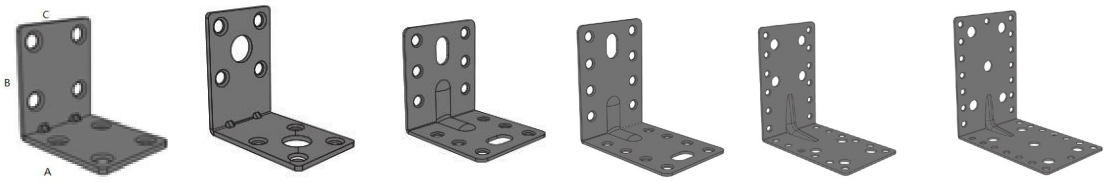
WOODEN CONNECTOR

PRODUCT
90 DEGREE ANGLES

PIANO



NO.	QA-117	QA-114	QA-115	QA-119	QA-124	QA-132
Thinkess	2.5	2	2	2.5	2	2
A	105	70	90	150	40	50
B	105	70	90	150	40	90
C	100	100	100	100	140	100



NO.	QA-007B	QA-008B	QA-024B	QA-026B	QA-107B	QA-119B
Thinkess	2	2	2	2	2	2
A	40	50	70	90	125	150
B	40	50	70	90	125	150
C	34	34	65	65	80	100

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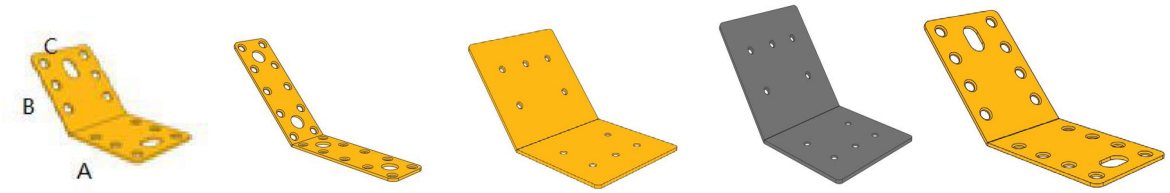
WA BUINESS



WOODEN CONNECTOR

PRODUCT
135 DEGREE ANGLES

PIANO



NO.	QA-043	QA-012	QA-078	QA-078B	QA-029
Thinkess	2	2	3	3	2.5
A	70	100	120	120	150
B	70	100	120	120	150
C	65	34	132	132	100

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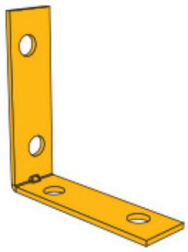
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WA BUINESS

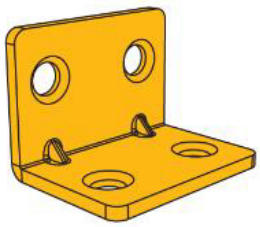


WOODEN CONNECTOR

PRODUCT
CHAIR ANGLE

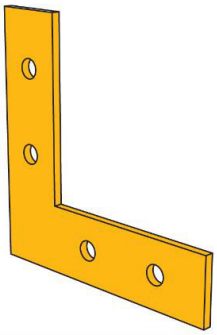
PIANO





NO.	QA-003	QA-061	QA-004	QA-063	QA-065
SIZE:	40*40	50*50	60*60	80*80	100*100

NO.	QA-077
SIZE:	30*20*20





NO.	QA-067	QA-069	QA-071	QA-073	QA-075
SIZE:	30*30	45*45	60*60	75*75	100*100

NO.	QA-006
SIZE:	17*20*20

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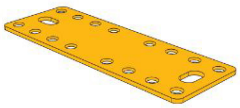
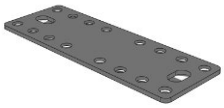
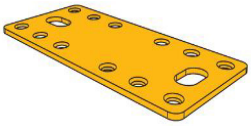
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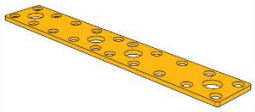
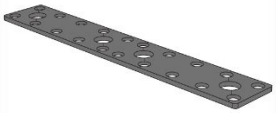
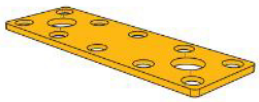
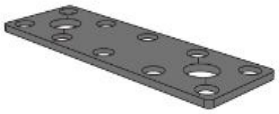


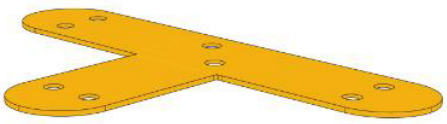
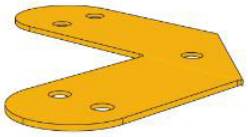
WOODEN CONNECTOR

PRODUCT AUTHORS

PIANO

				
NO.	**QA-030**	**QA-030B**	**QA-031**	**QA-031B**
SIZE:	65*180	65*180	65*140	65*140

				
NO.	**QA-032**	**QA-032B**	**QA-033**	**QA-033B**
SIZE:	34*200	34*200	34*100	34*100

		
NO.	**QA-034**	**QA-035**
SIZE:	Yellow T connector	34*200

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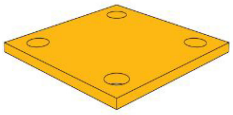
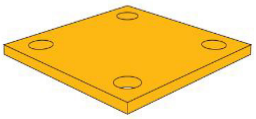
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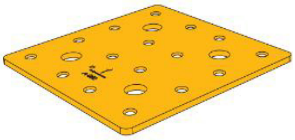
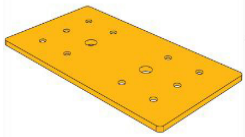
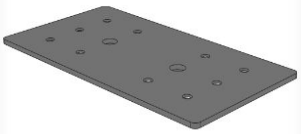
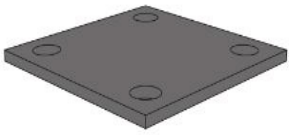
PRODUCT AUTHORS

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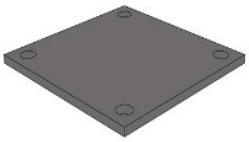
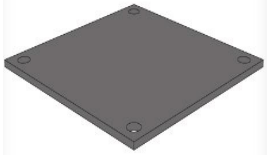
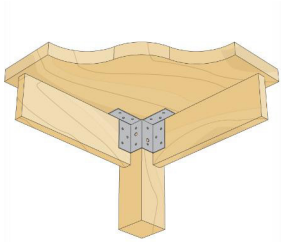





NO.	QA-048	QA-079	QA-140	QA-140B
SIZE:	100*100	4*120*120	100*120	210*100

NO.	QA-050	QA-051	QA-051B	QA-055
SIZE:	3*140*140	3*132*240	3*132*240	4*100*100

NO.	QA-056	QA-057	QG-054
SIZE:	4*150*150	4*200*200	Silver table connector

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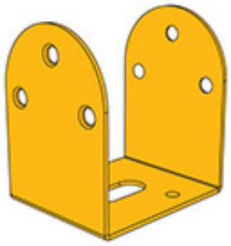
WA BUINESS



WOODEN CONNECTOR

PRODUCT
70 FLOOR MOUNTS

PIANO






NO.	QC-004	QC-004B	QC-075	QC-075B
Description	Floor mount	Floor mount	Black waves Bracket	Black waves Bracket
Thinkess	2	2	2	2
A	80	80	120	120
B	70	70	70	70
C	60	60	70	70

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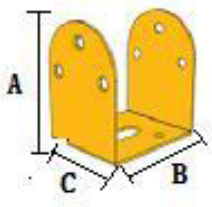
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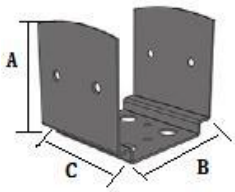


WOODEN CONNECTOR

PRODUCT
95 FLOOR MOUNTS

PIANO

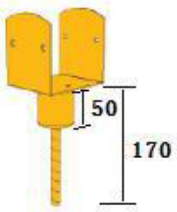


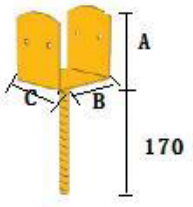


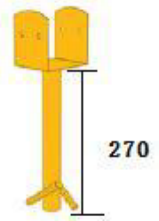


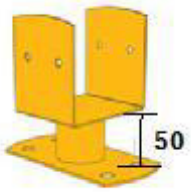


NO.	QC-003	QC-003B	QC-005	QC-005B
Description	Ranked floor mount	Ranked floor mount	Floor mount Ranked floor mount	Floor mount Ranked floor mount
Thinkess	2	2	2	2
A	90	90	90	90
B	95	95	95	95
C	80	80	80	80









NO.	QD-004	QD-005	QD-013	QD-021
Description	Rod Bracket	Without booster rod Bracket	Bracket Casting	Floor mount Ranked floor mount
Thinkess	2	2	2	2
A	90	90	90	90
B	95	95	95	95
C	80	80	80	80

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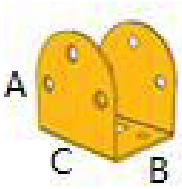
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WOODEN CONNECTOR

PRODUCT
95 FLOOR MOUNTS

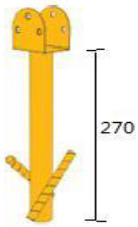
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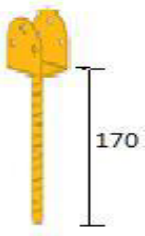






NO.	QC-001	QC-002	QC-055
Description	Small Bracket	Reinforced Bracket	A narrow Bracket
Thinkess	2	3	2
A	60	130	40
B	45	45	45
C	60	60	40





NO.	QD-022	QD-024
Description	Bracket Casting	Arod Bracket
Thinkess	2	2
A	130	85
B	45	135
C	60	132

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PIANOPLYWOOD WA BUINESS



WOODEN CONNECTOR

PRODUCT
45 FLOOR MOUNTS

PIANO





NO.	QD-095	QD-095B
Description	Bracket Waves 95	Bracket Waves 95
Thinkess	2	2
A	120	120
B	95	95
C	95	95

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PIANOPLYWOOD

WA BUINESS



WOODEN CONNECTOR

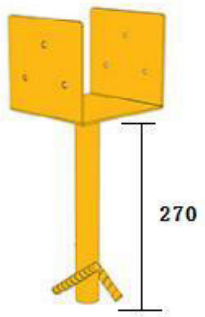
PRODUCT
SPECIAL SIZE FLOOR MOUNTS

PIANO

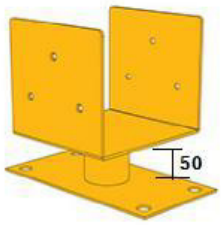
NO.	QD-026	QD-027	QD-090	QD-091
Description	ROD BRACKERT			
Thinkess	3	3	3	3
SIZE	60*60*170	90*90*170	70*70*170	100*100*170



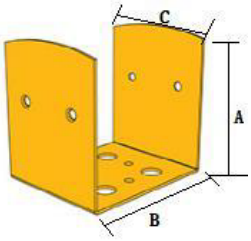
NO.	QD-036	QD-037
Description	Bracket Casting	
Thinkess	3	3
SIZE	120*235*220	150*285*270



NO.	QD-038	QD-039
Description	Surface bracket	
Thinkess	3	3
SIZE	120*235*240	120*235*290



NO.	QC-053	QC-053B
Description	Floor Bracket 120	
Thinkess	3yellow	3black
SIZE	80*120*80	80*120*80



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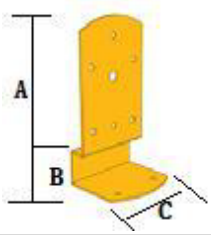
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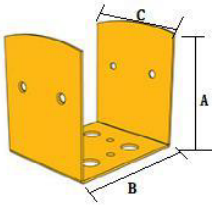


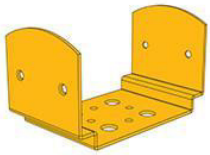
WOODEN CONNECTOR

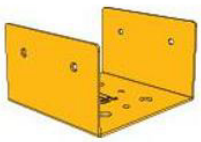
PRODUCT
135 FLOOR MOUNTS

PIANO

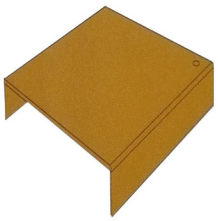




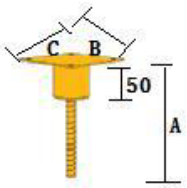


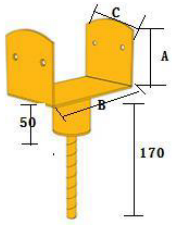


NO.	QC-006	QC-007	QC-008	QC-011
Description	Adjustable Bracket	Floor narrow bracket	Ranked narrow bracket	Wide floor mount
Thinkess	2.5	2.5	2.5	2.5
A	190	80	80	80
B	20	135	135	135
C	90	80	80	132









NO.	QC-012	QC-027	QD-003	QD-006
Description	A cross wide floor chassis	Ranked broad Bracket	Rod Bracket 100*100	Narrow rod bracket
Thinkess	2.5	2.5	3	2.5
A	12	85	170	80
B	135	135	100	135
C	135	132	100	80

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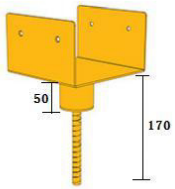
WA BUINESS



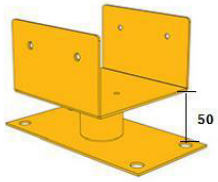
WOODEN CONNECTOR

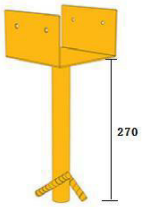
PRODUCT
135 FLOOR MOUNTS

PIANO

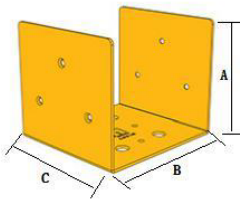


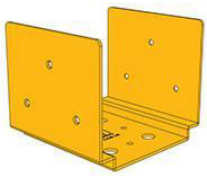


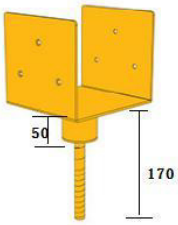


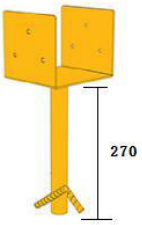


NO.	QD-007	QD-011	QD-012	QD-014
Description	Wide rod bracket	bracket narrow surface	Wide surface bracket	Broad casting bracket
Thinkess	2.5	2.5	2.5	2.5
A	80	80	80	80
B	135	135	135	135
C	132	80	132	132









NO.	QC-015	QC-040	QD-008	QD-015
Description	Bracket Casting	Ranked bracket	Rod bracket	Bracket Casting
Thinkess	3	3	3	3
A	120	120	120	120
B	135	135	135	135
C	132	132	132	132

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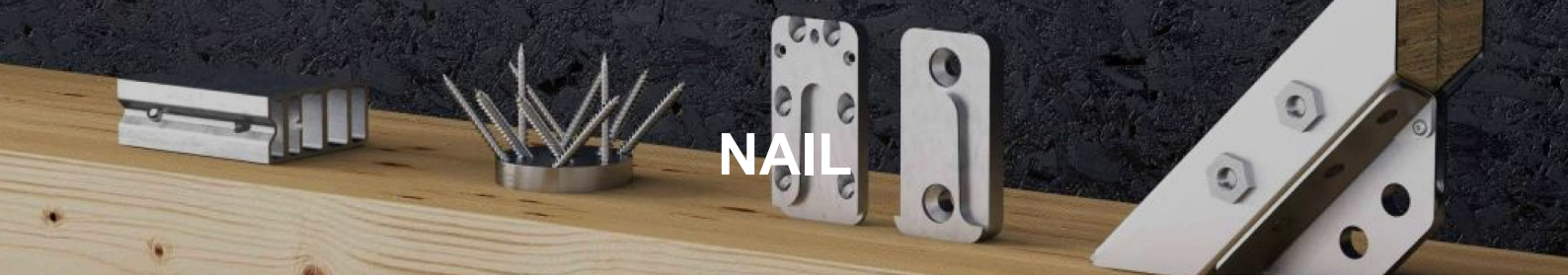
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PIANOPLYWOOD

WA BUINESS



NAIL

Material:
Iron,Q195, Q235

Head:
countersunk checked head, flat head

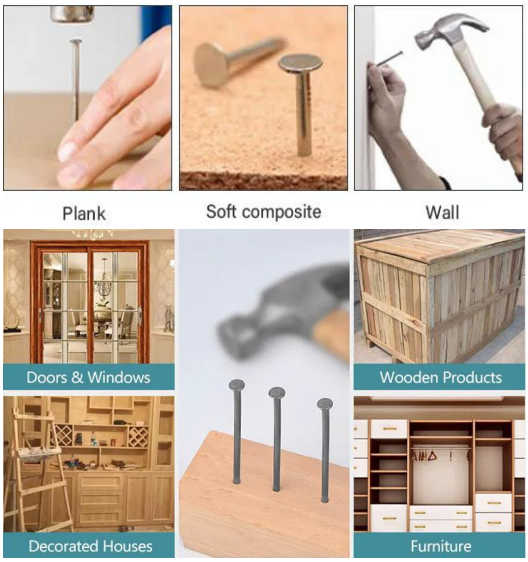
Features:
1)Nails have sharp heads and can easily penetrate into wood
2)Nail cap net pattern design,not easy to slip
3)The surface is smooth and flat,with metallic luster,whick is as bright as new after long-term use
4)Complete specifications to meet the needs of various sizes and lengths

Treatment:
Electro galvanized,hot dipped galvanized,vinyl coated

USE:
Building construction, decoration field, bicycle parts, wooden furniture, electrical component, household and so on



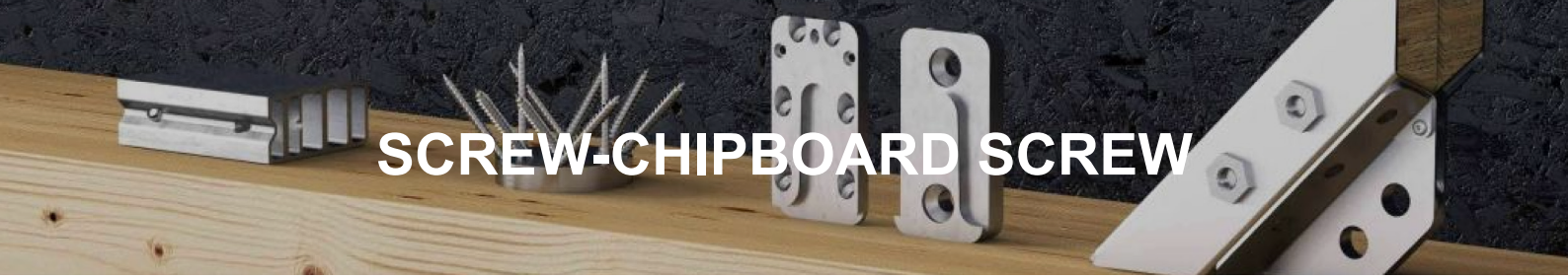




Size	Color
Shank diameter: 1.2mm-5.0mm Length:19mm-300mm	Silver White, black,blue,yellow

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PIANOPLYWOOD WA BUINESS

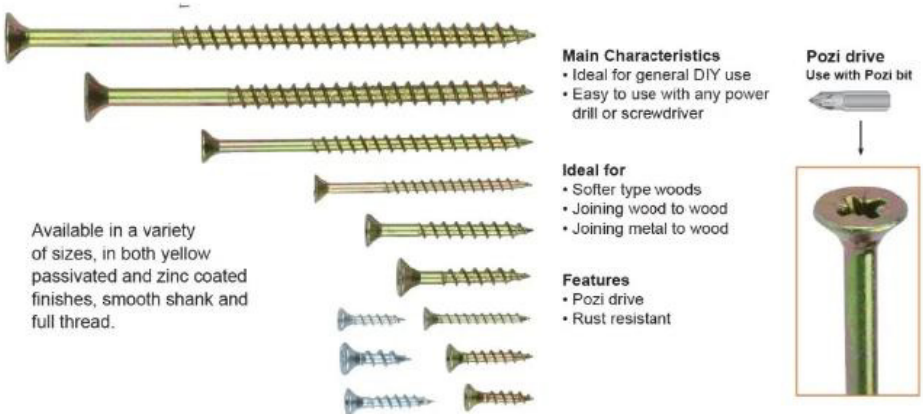


SCREW-CHIPBOARD SCREW

Finish:
Yellow Color Zinc Plated

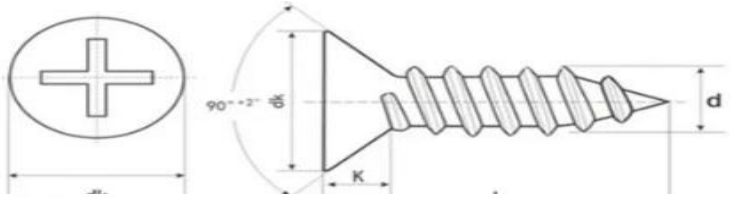
Material:
Steel

Size:
M3.5*30-50mm
M4*30-60mm
M4.5*50-100mm
M5*40-100mm
M6*80-240mm
M8*80-400mm





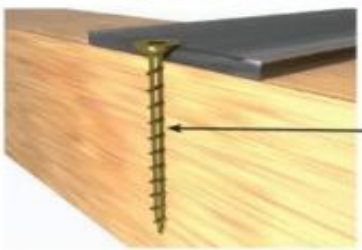




Smooth Shank Screws:
For Wood to Wood



Full Thread Screws:
For Metal to Wood



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PIANOPLYWOOD
WA BUINESS



SCREW-HEAVY DUTY CHIPBOARD SCREW

SINGER

PIANO





Finish:
ZINC PLATED, Silver Plated, Yellow Galvanized

Material:
Steel

Size:
M3.5*30-50mm
M4*30-60mm
M4.5*50-100mm
M5*40-100mm
M6*80-240mm
M8*80-400mm



Countersunk head with TX drive — Countersunk head ensures flush fitting of the screw in the installed member. TX drive guarantees optimum torque transfer.



Cutting ribs — Self-countersinking head ensures aesthetic finish result.

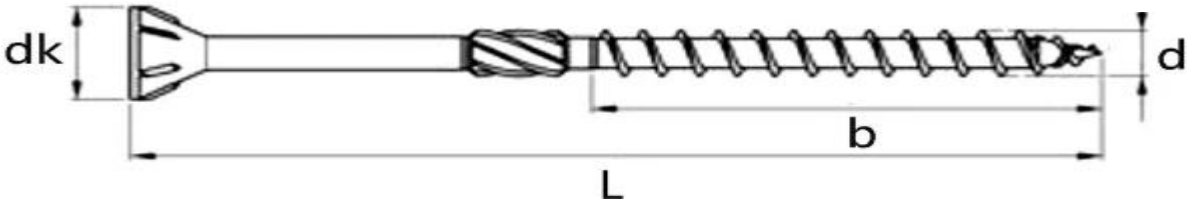


Shank ribs — Shank ribs reduces driving torque by reaming the hole.

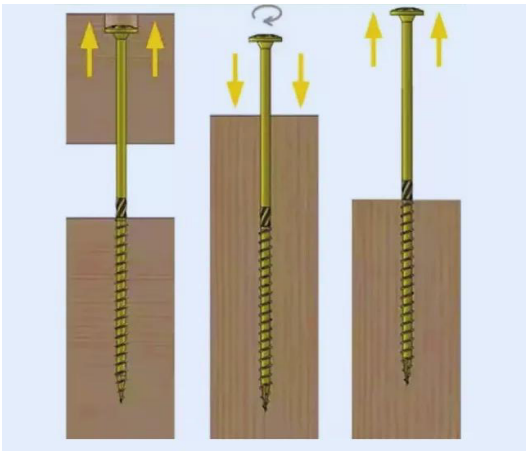


Serrated thread — Special cutting notches on the thread cut wood structural fibres while the screw is advancing.

Special cutting point — Notched thread tip makes the start of installation easier and prevents timber from splitting.







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WA BUINESS



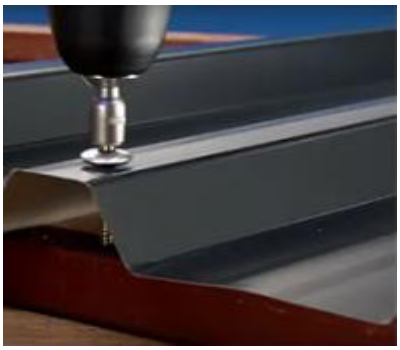
SCREW-SELF DRILLING SCREW HEX HEAD

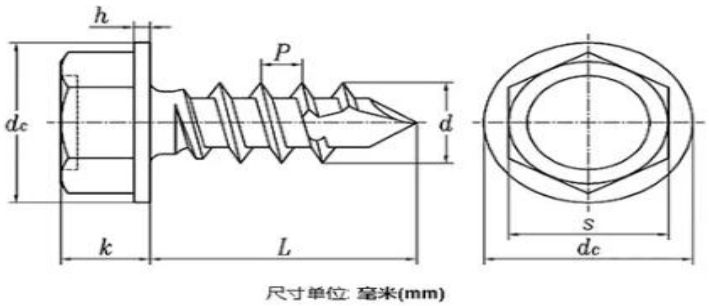
Material:
Steel

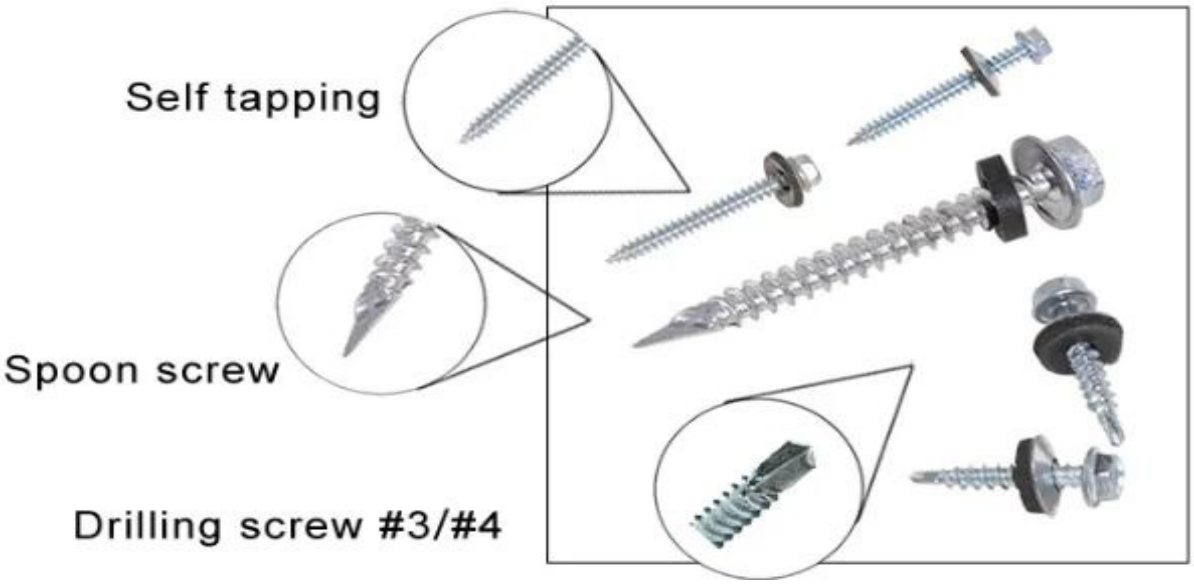
Size:
M2.2/3.5/3.9/4.2/4.8/6.3
L: 4.5-50mm

APPLOCATION:
Electronic, auto, electric appliance, electrical machine, toy, medical treatment spare metal parts,loudspeaker box, furniture and fitness equipment and other industries.









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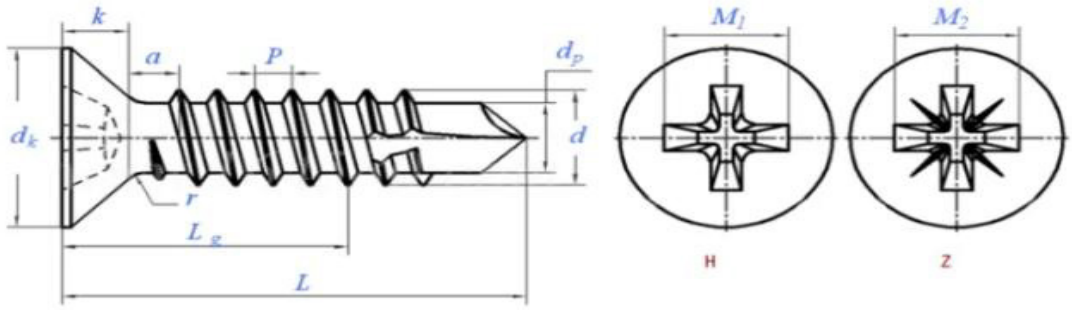
PIANOPLYWOOD WA BUINESS



SCREW-COUNTERSUNK HEAD SELF DRILLING SCREW

Finish:
ZINC, Plain, ZINC PLATED
Material:
Steel
Size:
M4.8*35/40/50
M5.5*40/50
M6.3*60/70/80
Application:
Heavy Industry, Building Industry, Furniture and Kitchenware, Machinery, General Industry, Automotive Industry, Oil and Gas,etc.





Unit: mm





Special Plastic Bag



Suitable Carton



Wood Fix Pallet

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SCREW-TRUSS HEAD SELF DRILLING SCREW

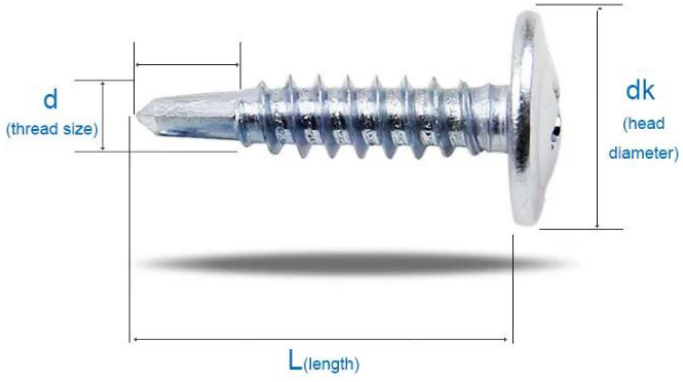
SINGER

PIANO





SIZE	THREAD SIZE(mm)	TOTAL LENGTH(mm)	HEAD DIAMETER (mm)	HEAD THICKNESS (mm)
M4.2*13mm	4.20	15.20	10.26	2.19
M4.2*16mm	4.16	18.17	10.61	2.20
M4.2*19mm	4.15	20.96	10.74	2.06
M4.2*25mm	4.20	27.09	10.54	2.21
M4.2*32mm	4.17	34.29	11.08	2.68
M4.2*38mm	4.15	39.93	10.59	2.46
M4.2*50mm	4.19	52.01	10.63	2.03

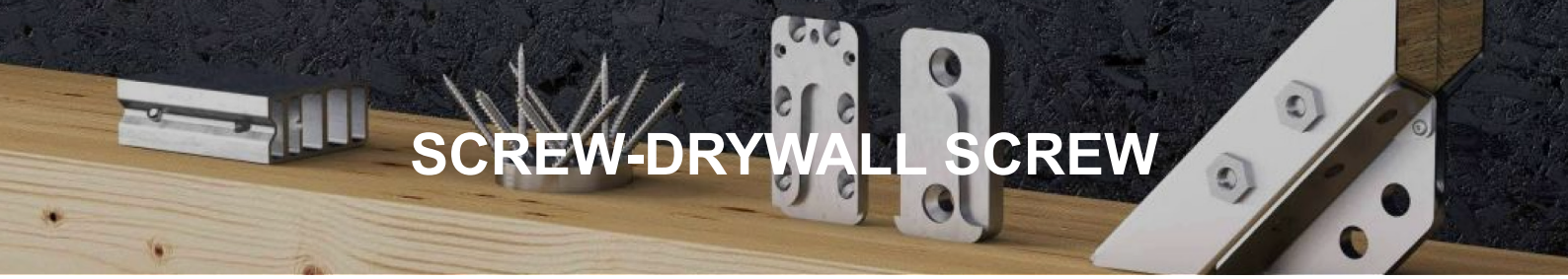




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SCREW-DRYWALL SCREW

SINGER

PIANO



BLACK PHOSPHATED

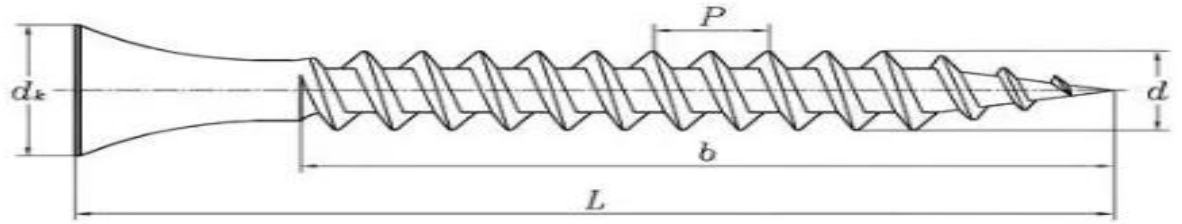


GREY PHOSPHATED



ZINC PLATED

Size(inch)	Size(mm)	Size(inch)	Size(mm)
#6x1/2"	3.5X13	#5x1“	2.5X25
#6x5/8"	3.5X16	#8x4"	4.2X100
#6x3/4"	3.5x19	#8x5/8"	4.2X16
#6x1"	3.5X25	#8x3/4"	4.2X19
#10x4"	4.8X100	#8x1"	4.2X25
#10x5"	4.8X125	#10x3"	4.8X75





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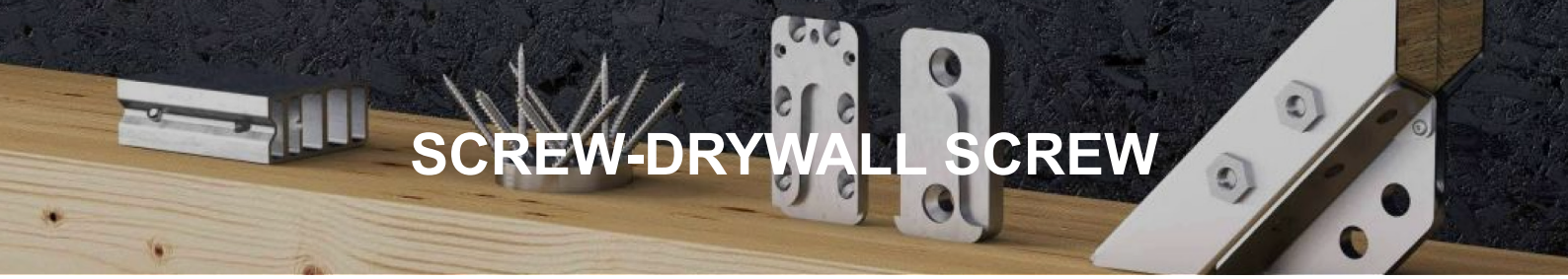
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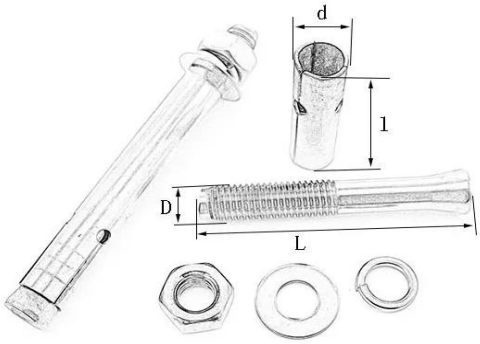
WA BUINESS



SCREW-DRYWALL SCREW

Model	Length (mm)	casing length (mm)	Screw diameter (mm)	casing diamete (mm)	Punch size(mm)
M6*50	50	35	6	8	8mm drilling
M6*80	80	55			
M6*100	100	80			
M8*60	60	40	8	10	10mm drilling
M8*100	100	70			
M8*150	150	120			
M10*60	60	35	10	12	12mm drilling
M10*100	100	75			
M10*150	150	120			
M12*80	80	50	12	16	16mm drilling
M12*120	120	90			
M12*150	150	120			
M16*110	110	70	16	20	20mm drilling
M16*150	150	100			
M16*200	200	150			





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