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PHILIPPINES' LEADING STEEL SUPPLIER

"Quality is our priority"





COMPANY: KING STEEL CORP

WEBSITE: www.kingsteelph.com

NATURE OF BUSINESS: Importer & Stockiest of Steel Products

MAIN PRODUCT:

Steel Pipes & Pipe Fittings (Carbon & Stainless)
Rectangular & Square Tubes (Carbon & Stainless)
Steel Plates (Carbon & Stainless)
Angle Bar (Carbon & Stainless)
Valves & Gasket (Carbon & Stainless)
Flanges & Bolts (Carbon & Stainless)
Wide Flange Beam (Carbon Steel)
Spiral Pipe (SSAW Pipe)
Copper Tubes & Copper Plates
AR Plates, AR Pipes & Ar Elbow

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BUSINESS PROFILE

KING STEEL CORP is subsidiary company of
SOLID STEEL CO., LTD.
Year ESTABLISHED JULY 2011.

KING STEEL, the official Trade Name of **KING STEEL CORP.**, situated in the Philippines is an importer & stockiest, distributor since 2022. The company has established long term and strong partnership with the steel mills overseas of various countries such as China, Japan, South Korea, Taiwan, and other European countries.

KING STEEL takes pride in its role as a prominent supplier of construction materials and steel for a wide array of applications, encompassing industrial, oil, & gas, petrochemical, mining, power and energy, and building construction.

MISSION

To become the leading and most reliable supplier of construction material and steel products in various industries, distinguished by our commitment to delivering high quality products with the best lead time, and appropriate specification.

VISION

Helps clients complete their projects satisfactorily and timely by providing exceptional quality products, on-time deliveries, and outstanding services.



STEEL PLATES

Carbon steel plates, Stainless Plate and Aluminium plates have versatile applications in different industries. It is classified according to the carbon content, Nickel content from low to high. It is also classified according to its usage and application.

Different types of carbon steel plates are used in machinery and production companies as the base material for component construction. Its durable property makes it ideal for various manufacturing parts. Apart from carbon steel plates, there are vessel steel plates, shipbuilding or construction steel plate, structural steel plate, pipeline, and stainless steel plates.

Sizes:

1. Thickness – 1.2mm up to 150mm
2. width – 292.00mm (4ft.) up to 10,938mm (150ft.)
3. Length – 437.52mm (6ft.) up to 10,938mm(150ft.)

Plate Material:

CARBON STEEL - ASTM A36, A572, ASTM A537, A131, A285, A283C, S355JR, S275JR, SS400, Q235B

STAINLESS STEEL - ASTM A240-TP316/L, TP304L

SHIP BUILDING PLATE - ABS GR, A, B, C

BOILER PLATE - A516 - GR. 60, 70, 80



STEEL PIPES

Seamless Pipe

Seamless pipes are formed from a solid round steel billets. It is manufactured for high-pressure applications and is widely used in construction, Oil refining, Chemical & Petro-Chemical Industries etc.

Steel consumption reached 9.68 million MT and is growing by 10 % yearly for the fast increase of development within the country. Amongst this consumption, 81% goes for ship building, 9% for light & heavy fabrication, 5% for ship building, 4% for packaging and 1% for others. (Philippines Country Report, 2016).

ERW, LSAW Pipe (Welded Pipe)

ERW welded pipes are typically more cost effective than their seamless equivalents. It is usually available than the seamless. It is made for diverse industrial applications such as public infrastructure, engineering construction, fabrication, food & dairy, etc. Solid Steel supplies ERW welded pipes an estimated of more than that of the seamless yearly to all locations around the country.

SSAW Pipe (Spiral Pipe)

Spiral steel pipe, also known as spiral or helix spiral steel pipe, is a low-carbon steel or low-alloy structural steel strip at a certain helix angle (called molding angle) rolled into a tube, and the tube is made of welded joints It can be produced with a narrow strip of large diameter pipe.

Stainless Pipe

The benefits of a corrosion resistant metal when it comes to pipes should be abundantly clear. That's why stainless steel is a common choice for piping applications.

One specific piping application is known as stainless steel pressure pipe. This grade of stainless steel is made up of solid chromium, or alternatively, a chromium-nickel mixture. The appropriate alloys for this type of pipe generally come from the ferritic and austenitic families. Applications include seamless pipe, welded pipe, electric fusion welded pipe, and large diameter welded pipe. This type of pipe can be useful for corrosive or high-temperature applications, as well as high-pressure environment.

PIPE TYPE : SEAMLESS, LSAW, DSAW, ERW WELDED, SPIRAL

Seamless Pipe Material

Size: 1/8" up to 24"

length: 6m (20FT) up to 12m (40FT)

Material Specifications:

ASTM A-53 Grades A, B and C

A-106 Grades A, B and B

A-252 Grades 1, 2 and 3

A-333 Grades 1 through 11

A-335 Grades P-1 through P-22

A-501, A-523, A-589

API5L Grades A & B

API5L X-42 through X-65

Welded Pipe Material

Pipe Size: 1-1/2" up to 100"

Length: 6m (20FT) up to 12m (40FT)

Materials Specifications:

ASTM A-53 Grades A, B and C

A-252 Grades 1, 2 and 3

API5L Grades A & B

API5L X-42 through X-65

ASTM A333, ASTM A334

ASTM A671, ASTM A672

ASTM A500

Stainless Material

Size: 2" up to 24"

Length: 6m (20FT) up to 12m (40FT)

Material Specifications:

ASTM A312-TP304/L, 316L, TP321, 317L

ASTM A790

ASTM A268

Duplex S31803, S32205, S32750



STAINLESS STEEL PIPES (STAINLESS PIPES)

Stainless Pipe, hollow structure, usually cylindrical, is used primarily to convey liquids, gases, or solids suspended in a liquid, e.g. a slurry. It is also used as a conduit for electric wires. Sometimes it is used as a steel structure. Characteristically has a minimum of 10.5% chromium by weight means has a larger percentage of chromium in it as compared to carbon steel, which is what grants it the ability to resist corrosion.

MATERIAL GRADES FOR STAINLESS PIPES

Austenitic:	201,202,301L,302,303,304,304L, 304N,305
Ferritic:	317L,321,347,904L,253MA,254SMO, 405,409,409L,410,410S,410L,430, 430F,436,436L,439,443,444.
Martensitic:	403,414,416,420J1,420J2,431,440A, 440B,440C,446
Duplex:	15-5PH, 17-4PH/630,17-7PH,660A, 660B, 660C,660D,S31803/2205 S32250,S32750,S32760,S31500, 32101,S3204

TWO (2) SUB-CATEGORIES FOR STAINLESS STEEL PIPES

Stainless Steel Seamless Pipes

Seamless (SMLS) pipes is formed by drawing a solid billet over a piercing rod to create the hollow shell. As the manufacturing process does not include any welding, seamless pipes are perceived to be stronger and more reliable. Historically seamless pipe was regarded as withstanding pressure better than other types and was often more easily available than welded pipe.

Stainless Steel Seamless Pipes

Welded pipes is manufactured by rolling metal and then welding it longitudinally across its length, therefore welded pipes have a welded joint in its cross-section. It can be ERW, EFW,LSAW, SSAW.

WHICH STAINLESS STEEL PIPE IS BEST?

The optimum steel pipe relies on the certain application and one's demands. There are some common kinds along with their uses.

305 Stainless Steel

The most commonly used stainless steel is 304. It is perfect for everyday applications such as food processing, storing chemicals in homes or industries and domestic water systems.

316 Stainless Steel

Renowned for its excellent anti-corrosive properties, especially in relation to chlorides and marine atmosphere, it is commonly used in chemical processing plants, marine environments or in medical devices.

304L and 316L Stainless Steel

These are the less carbonated versions of 304 and 316 respectively and are recommended for welding purposes so as to prevent any carbide precipitation.

321 Stainless Steel

Not only is 321 Stainless steel stabilized with titanium but it's also the perfect choice in high temperature applications such as aircraft exhaust systems.

2205 Duplex Stainless Steel

A type of material that is very good for preventing it from being eaten away by rust while also giving enough force to withstand forces applied onto it; hence making it suitable for use in such fields as oil drilling rigs where there is a lot of pressure from inside outwards through corrosion of metals due to saltwater coming into contact with them all the time.



SPIRAL PIPE



ERW, LSAW(WELDED PIPE) AND SSAW PIPE(SPIRAL PIPE)

Spiral welded steel pipe is a low carbon structural steel or a low alloy structural steel strip rolled into a tube blank with a certain helix angle (also called forming angle), and then welded and made into a pipe joint, which can use a narrow strip steel production of large diameter steel pipes. Spiral welded pipes are single-sided welded and double-sided welded. The welded pipe shall ensure that the hydraulic test and the tensile strength and cold bending performance of the weld are in compliance with the regulations.

SSAW Pipe (Spiral Submerged Arc-Welding Pipe) also called HSAW pipe, welding line shaped like a helix. It is using the same welding technology of Submerged Arc-Welding with LSAW Pipes. Differently, SSAW pipe is spiral welded whereas the LSAW is longitudinally welded.

SPIRAL PIPE SIZES

Diameter : DN 150mm to 2500mm
Thickness : 6mm to 20mm
Length : 6meters to 40meters

Material Specifications:

ASTM A-5 Grades A, B and C
A-252 Grades 1, 2, and 3
API5L Grades A & B
API5L X-42 through X-65
ASTM A333, ASTM A334
ASTM A671, ASTM A672
ASTM A500

ADVANTAGES OF USING SPIRAL PIPE:

Low air leakage, enhanced airflow characteristics, and reduced pressure drop endure smaller and more efficient air-moving equipment.

Inherently more durable, enabling the use of cheaper, lighter-gauge metals.

Efficiently produce from strip steel to any dimension

COMMONLY USAGE OF SPIRAL PIPE



Water System

For water systems with long lines and a large diameter, spiral pipes are also perfect. Considering that they are less expensive than other pipes like ductile and HDPE. Spiral pipes can be used for portable water lines if they are adequately coated and lined.



Oil and Gas

Spiral pipes can also be used for oil and gas transportation. The interlocking design of spiral pipes ensures a tight seal, making them suitable for the high-pressure and corrosive environments often found in the oil and gas industry.



Structural piling and the foundation

Spirally-welded steel pipes are useful for port piling foundations, bridge piling foundations and river flood control. They can endure high yield stress because of their high yield strength.



PIPE FITTINGS

A pipe fitting is used in pipe plumbing systems to connect straight pipe or tubing sections, to adapt to different sizes or shapes, and for other purposes, such as regulating or measuring fluid flow. Piping or tubing are usually (but not always) inserted into fittings to make connections. To avoid confusion, connections are conventionally assigned a gender of male or female, respectively abbreviated as "M" or "F". An example of this is a "3/4 inch female adapter NPT," which would have a corresponding male connection of the same size and thread standard (in this case, NPT).

Standard:	ANSI/ASME B16.9
Product:	Elbow LR/SR. 45/90/180DEG, Tee Straight / Reducing, Cross Reducer Concentric / Eccentric, Cap
Size:	1/2"-24" Seamless, 4"-72" Seam-Welded
Wall Thickness:	SCH5, SCH10S, SCH10, SCH20, SCH30, STD, SCH40, XS, SCH60, SCH80, SCH100, SCH120, SCH140, SCH160, XXS
Material:	Carbon Steel ASTM A234 WPB , Stainless Steel A403 WP304/304L, WP316/316L; WP317/317L, WP321



FLANGES AND BOLTS

Forged flanges ASTM standards

Standard Grades according ASTM A / ASME SA182, F304/L and F316/L (dual marked and certified), ASME B16.5, annealed and fully machined, raised face with spiral serrated and smooth finish (125-250 RMS / 3.2-6.3 μm) to MSS SP-6, hardness to NACE MR0175, IC to ASTM A262E and PMI tested. With certificate to EN10204/3.1 Special Grades according ASTM A182, SAF2205 / F51, SAF2507 / F53, ASME B16.5, annealed and fully machined, raised face with spiral serrated and smooth finish (125-250 RMS / 3.2-6.3 μm) to MSS SP-6. Hardness to NACE MR0175, IC to ASTM A262E (G48A for SAF2507) and PMI tested.

AMERICAN STANDARD FLANGES ANSI 16.5

Standard: ANSI B16.5
Flange Type: WELDING NECK, SLIP ON, BLIND, LAP JOINT, THREADED, SOCKET WELDING
Size Range: 1/2" to 24"
Pressure Class: 150LB, 300LB, 400LB, 600LB, 900LB, 1500LB, 2500LB
Sealing Type: Flat Face (FF), Raised Face (RF), Ring Joint (RTJ)
Material: Carbon Steel ASTM A105/A105N, A694 F42-F70, A-350 LF1/LF2, Stainless Steel ASTM A182, F304/304L F316/316L, F321, F51 Alloy Steel, ASTM A182 F11/F12/F22

AMERICAN STANDARD FLANGE-ASME B16.47 SERIES A (MSS SP44)

Standard: ASME B16, 47 SER.A (MSS SP44)
Flange Type: WELDING NECK, BLIND
Pressure Class: 150LB, 300LB, 400LB, 600LB, 900LB
Size Range: 12" - 60"
Material: Carbon Steel ASTM A105/A105N, A694 F42-F70; A-350 LF1/LF2, Stainless Steel ASTM A182 F304/304L, F316/316L, F321

FLANGE - ASME B16.47 SERIES B (API605)

Standard: ASME B16.47 SER.B (API 605)
Flange Type: WELDING NECK, BLIND
Pressure Class: 75LB, 150LB, 300LB, 400LB, 600LB, 900LB
Size Range: 26" - 60"
Material: Carbon Steel ASTM A105/A105N, A694 F42-F70, A-350 LF1/LF2, Stainless Steel ASTM A182 F304L, F316/316L, F321

FLANGE - AWWA C207

Standard: AWWA C207
Flange Type: RING FLANGE, BLIND FLANGE, HUB FLANGE
Pressure: CLASS B, CLASS D, CLASS E, CLASS F,
Size Range: 4"-144"
Material: Carbon Steel ASTM A36, A105 Stainless Steel ASTM A182 F304/304L, F316/316L, F321

ASTM Slip-on 150 / 300 lbs



FFSO

ASTM Welding neck 150 / 300 lbs



FFWN

ASTM Blind 150 / 300 / 600 lbs



FFB

ASTM Socket welding 150 / 300 lbs



FFSW

ASTM Lap joint 150 lbs



FFLJ

AS 2129 table flanges



AS 4087 waterworks flanges





VALVES AND GASKET

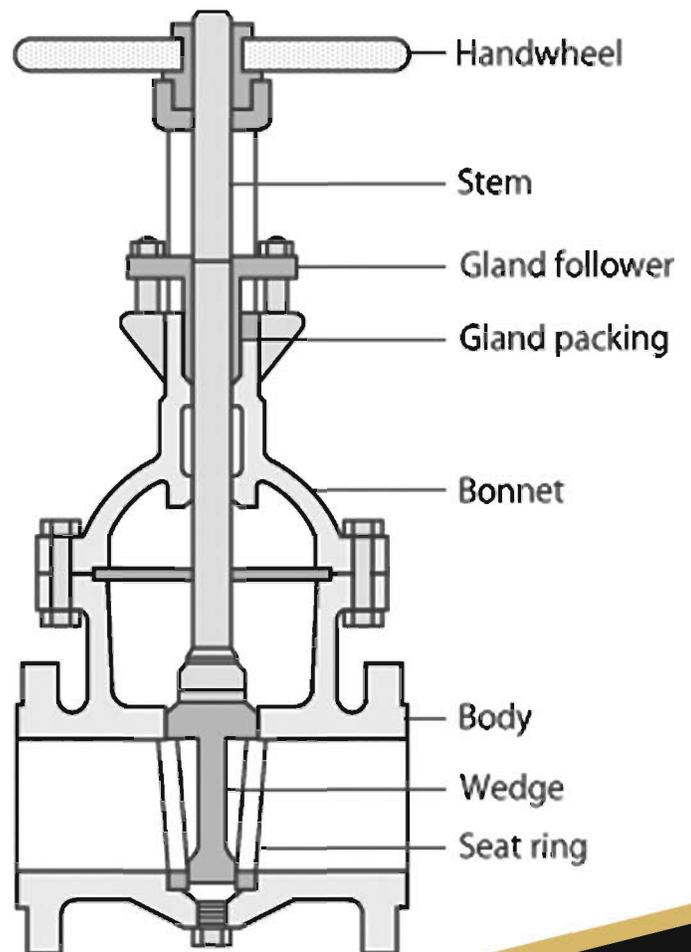
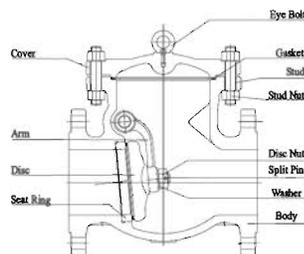
Valves are mechanical devices that controls the flow and pressure within a system or process. They are essential components of a piping system that conveys liquids, gases, vapors, slurries etc. Industrial valves are of various types such as Gate Valves, Globe Valves, Ball Valves, Butterfly Valves, Check Valves, Pressure Valves, and Diaphragm Valves etc. These valves perform various functions working on a different working principle.



GATE VALVE

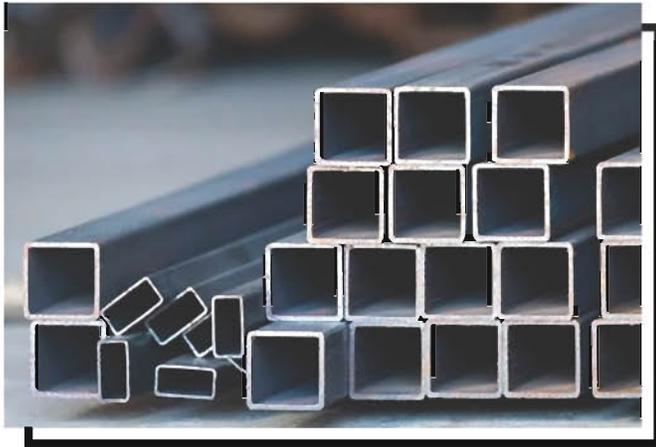


CHECK VALVE



GLOBE VALVE

ANGLE BAR



RECTANGULAR AND SQUARE STEEL TUBINGS

Steel rectangular tubing and steel square tubing products are constructed from hot rolled metal coils that are hollowed out to create their tubular shape. Rectangle steel tube and steel square tubing products are also low in cost and offer a greater strength-to-weight ratio than other types of shaped metal products. In addition, rectangle steel tubes and square steel tubings are regularly utilized throughout the world for their outstanding strength and rigidity.

ANGLE BAR SIZES

Thickness: 20mm

Width : up to 300mm Height: up to 300mm

Length: 6M, 9M, 12M

AVAILABLE TUBULAR STEEL SIZES

Thickness: 1.0mm to 40mm

Width : up to 500mm Height: up to 500mm

Length: 6M, 9M, 12M

Tube and Angle Bar Material:

CARBON STEEL - ASTM A36, Q235B, Q345B, A500, A572

STAINLESS STEEL - ASTM A240-TP316/L, TP304L

TUBE TYPE: SEAMLESS, COLD ROLLED FORMING

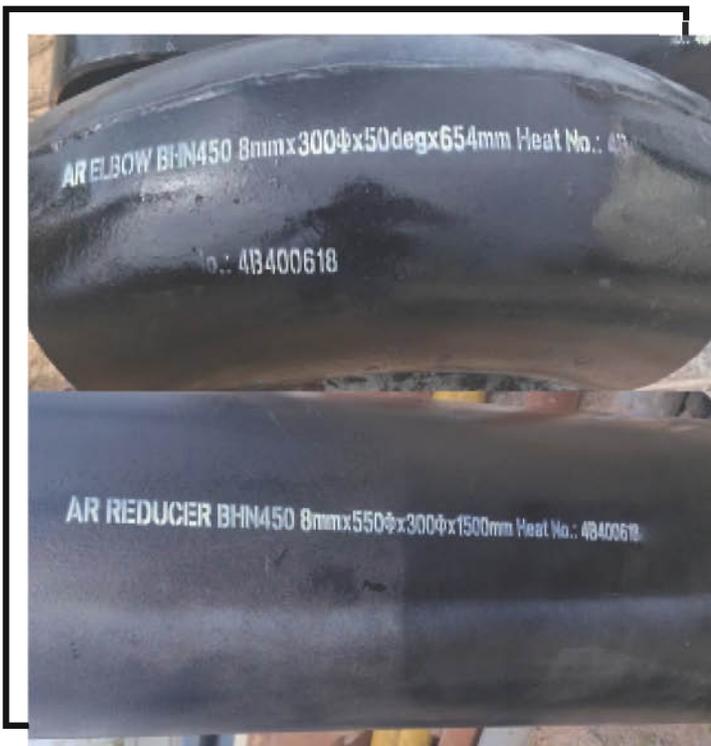
ABRASION RESISTANT (AR PLATE)

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Abrasion-resistant (AR) steel plate is a high-carbon alloy steel plate used in industrial manufacturing, mining, construction, and material handling. It increases toughness and hardness but reduces strength. AR plates are not suitable for structural construction like support beams in bridges or buildings.

Common applications include conveyors, buckets, dump liners, construction attachments, and grates.

AR STEEL PLATES BHN400 40X1219X2438MM HEAT NO:1421102974Y



Benefits

Increased Longevity: Reduces the frequency of replacements and repairs
Cost-Effective: Although AR plates may be more expensive initially, their durability often results in lower overall maintenance costs.

Efficiency: Helps maintain the performance and safety of machinery by preventing excessive wear.

Common Grades:

AR400: A steel plate with a hardness of around 400 HB, suitable for moderate wear applications.

A500: A harder plate, with a hardness of around 500 HB, used in more severe wear conditions.

A600: Components like conveyor belts and hoppers that are subject to high wear.

Applications:



Mining Equipment: For parts that encounter abrasive materials, like bucket liners and chute linings.



Construction Machinery: Such as loaders and crushers that handle rough materials.



Material Handling: Components like conveyor belts and hoppers that are subject to high wear.

Key Characteristics:

High Hardness: AR steel plates are manufactured to be harder than steel, which enhances their resistance to abrasion and wear. Hardness levels are often measured using the Brinell hardness scale (HB) or Rockwell hardness scale.

Durability: Due to their hardness, AR plates have a longer service life compared to regular steel plates. This makes them ideal for applications where components are subject to heavy wear.

Toughness: While being hard, AR steel plates are also designed to maintain a level of toughness to resist cracking and impact damage.

COPPER PIPE

Copper pipe is also called re copper pipe a kind of non-ferrous metal tube is pressed and drawn seamless tube



COPPER TUBE

Copper tube has good electrical conductivity, thermal conductivity characteristics, electronic products conductive accessories and heat dissipation accessories of the main materials.

PRODUCT PARAMETER

Product Name: Copper Tube Pipe

Materials: Copper

Standard: ASTM, SIDI, JIS, DIN, GB, EN

Grade: C10100, C10200, C10300, C10400, C10500, C10700, C10800, C10910, C10920, C10930, C11000, C11300, C11400, C11500, C11600, C12000, C12300, C12500, C14200, C14420, C14500, C14510, C14520, C14530, C17200, C19200, C21000, C23000, C37000, C27400, C21000, C23000, C26000, C27000, C274000, C28000, C33000, C33000, C33200, C37000, C44300, C44400, C44500, C60800, C63020, C65500, C68700, C70400, C70620, C71500, C71520, C71640, C72200

Shape: Tube

Temper: Q H112, T3-T8, T351-T851

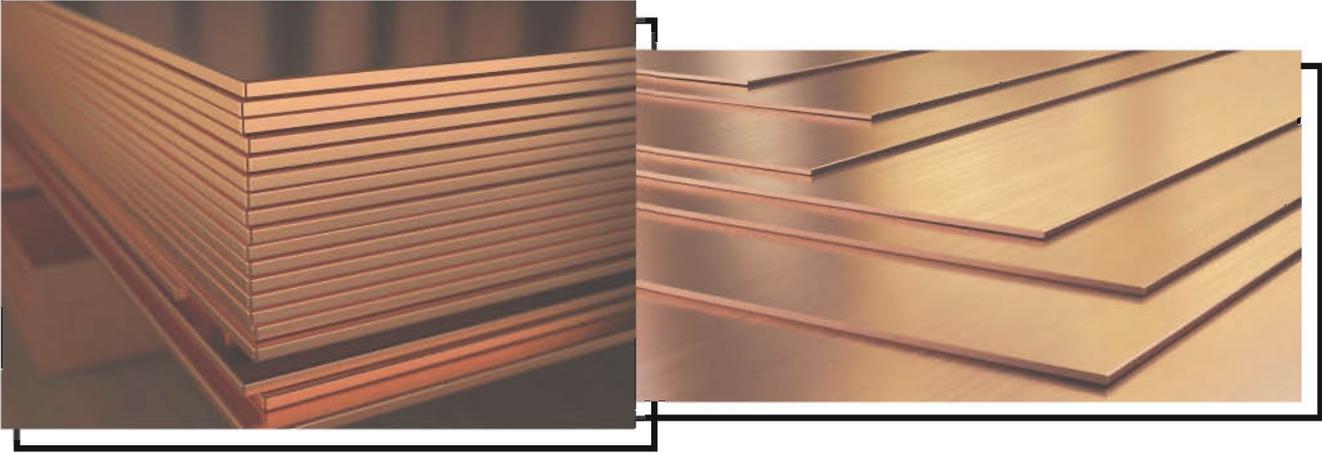
Size: Thickness 0.3mm-100mm
Width 50mm-2500mm
Length 1000mm-12000mm

Surface: Mill finish, polished anodizing, brushing, powder coating and etc.

Package: Standard export seaworthy package or as required

SAMPLE PRODUCTS OF COPPER





COPPER PLATE

Copper plate is a plate made of pure copper or copper alloy. Its processing is divided into hot rolling and cold rolling

Copper plate is a kind of roof and curtain wall materials with high stability and low maintenance. It is environmentally friendly, safe to use, easy to process and has great corrosion resistance.

PRODUCT PARAMETER

Product Name: Copper Plate

Standard: GB/T2058-2008, GB/T11091-2005
GB/T18813-2002, GB/T20254-2006
GB/T5231-2001, JISH3300-2006, etc

Grade: C10100, C10200, C10300, C10400
C10500, C10700, C10800, C10910
C10920, C10930, C11000, C11300
C11400, C11500, C11600, C12000
C12300, C12500, C14200, C14420
C14500, C14510, C14520, C14530
C17200, C19200, C21000, C23000
C37000, C27400, C21000, C23000
C26000, C27000, C274000, C28000
C33000, C33000, C33200, C37000
C44300, C44400, C44500, C60800
C63020, C65500, C68700, C70400
C70620, C71500, C71520, C71640
C72200

Size: Thickness 0.3mm-100mm
50mm-2500mm
1000mm-12000mm

Surface: polished, bright, hair line
checkered, mirror, brush antique,
sandblast, etching

Application: Electrical equipment, slip steamed
building, chemical industry, switch
air cushion, furnace heat, exchangers
lead frame, plating

SAMPLE PRODUCTS OF COPPER

COPPER SCRAP WIRE COPPER ROD/BARS



COPPER FLATS BARS



COPPER STRIPS



COPPER WIRE

PRODUCT PARAMETER

Product Name: Copper Plate

Standard: GB/T2058-2008, GB/T11091-2005
GB/T18813-2002, GB/T20254-2006
GB/T5231-2001, JISH3300-2006, etc

Grade: C10100, C10200, C10300, C10400
C10500, C10700, C10800, C10910
C10920, C10930, C11000, C11300
C11400, C11500, C11600, C12000
C12300, C12500, C14200, C14420
C14500, C14510, C14520, C14530
C17200, C19200, C21000, C23000
C37000, C27400, C21000, C23000
C26000, C27000, C274000, C28000
C33000, C33000, C33200, C37000
C44300, C44400, C44500, C60800
C63020, C65500, C68700, C70400
C70620, C71500, C71520, C71640
C72200

Size: Thickness 0.3mm-100mm
50mm-2500mm
1000mm-12000mm

Surface: polished, bright, hair line
checkered, mirror, brush antique,
sandblast, etching

Application: Electrical equipment, slip steamed
building, chemical industry, switch
air cushion, furnace heat, exchangers
lead frame, plating

BENEFITS

- Easy to install and a cost effective solution.
- Can be Installed in walls, floors and ceilings
- Good general chemical resistance

What is Puddle Flange?

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Cold Drawn 304/316 -Stainless Steel



A Puddle Flange also known as a floor flange or a plinth flange, is a specialized piping and plumbing fitting designed to prevent water or other fluid penetration through floor wall openings where pipes pass through. It is typically a disc-shaped or ring-like component made from durable materials such as carbon steel and stainless steel. Puddle Flanges are available in various sizes and designs to accommodate different pipe diameters.

PUDDLE FLANGE APPLICATION

- To prevent water or gas getting into buildings via pipe penetrations.
- Domestic and commercial developments.
- Suitable for use with all smooth walled pipes provided that the pipe surface, at the point of installations, is clean, smooth and free of pores or surface imperfections.
- Most pipe sizes can be accommodated from 20mm through to 3200mm diameter.
- Installed on pipes during construction where water penetration has to be prevented.



PUDDLE FLANGE FEATURES

High Durability :

Crafted from premium steels, our flanges withstand harsh environmental conditions without degradation.

Superior Corrosion Resistance:

Stainless steel and protective coatings prevent corrosion, extending the life of infrastructure.

Flexible Installation:

Available in adjustable and fixed configurations, facilitating easy installation across various settings.

Seamless Integration:

Designed to fit seamlessly into existing systems, ensuring compatibility and ease of maintenance.

DESCRIPTION	PUDDLE LG (mm)	kg/pc Flange	kg/pc
DN1600 (NPS 48in) x XS/SCH20 (12.7mm thk)	3000	326.36	2,494.90
DN1400 (NPS 48in) x XS/SCH20 (12.7mm thk)	3000	275.00	2,149.11
DN1200 (NPS 48in) x XS/SCH20 (12.7mm thk)	2500	185.00	1,499.48
DN1000 (NPS 40in) x XS/SCH20 (12.7mm thk)	2500	181.09	1,328.82
DN900 (NPS 36in) x XS/SCH20 (12.7mm thk)	2000	141.14	987.95
DN800 (NPS 32in) x XS/SCH20 (12.7mm thk)	2000	124.09	873.55
DN750 (NPS 30in) x XS/SCH20 (12.7mm thk)	1800	111.27	756.22
DN700 (NPS 28in) x XS/SCH20 (12.7mm thk)	1800	106.36	712.73
DN650 (NPS 26in) x XS/SCH20 (12.7mm thk)	1800	97.36	656.99
DN600 (NPS 24in) x XS (12.7mm thk)	1500	86.90	541.64
DN550 (NPS 22in) x XS/SCH30 (12.7mm thk)	1500	80.00	496.64
DN500 x XS/SCH30 (12.7mm thk)	1500	61.90	418.38
DN450 x XS (12.7mm thk)	1500	48.90	355.43
DN500 x sch 40 (15.90mm)	800	46.00	279.42
DN450 x sch 40 (14.27mm)	800	61.90	271.34
DN400 x sch 40 (12.70mm)	800	48.90	236.64
DN350 x sch 40 (11.31mm)	800	46.00	182.64
DN300 x sch 40 (10.31mm)	800	36.00	142.38
DN250 x sch 40 (9.27mm)	800	26.20	97.75
DN200 x sch 40 (8.18mm)	800	16.50	70.34
DN150 x sch 40 (7.11mm)	800	12.10	44.96
DN125 x sch 40 (6.55mm)	800	7.45	35.63
DN100 x sch 40 (6.02mm)	800	6.07	28.76
DN80 x sch 40 (5.49mm)	800	5.30	20.56
DN65 x sch 40 (5.14mm)	800	3.85	16.74
DN50 x sch 40 (3.91mm)	800	3.28	10.53
DN40 x sch 40 (3.66mm)	800	2.06	7.20
DN32 x sch 40 (3.56mm)	800	1.32	5.80
DN25 x sch 40 (3.36mm)	800	1.03	4.34
DN20 x sch 40 (2.87mm)	800	0.78	3.03
DN20 x sch 40 (2.77mm)	800	0.56	2.19

SPECIFICATION	DETAILS
Materials	Stainless steel (V2A/AISI 304, V4A/AISI 316TI), Carbon SteelL (ST37, ST42, ST52)
Standards Compliance	ISO 1083, EN 545, EN 1092-2
Flange Drilling	Different Flange Drillings are Available (ISO, EN, ANSI)
Lining and Coating	Hot Dipped Galvanized, Solvent Free Epoxy, Fusion Bonded Expocy (FBE), POLYURETHANE, 3LPE
Internal Coatings	Liquid epoxy painting, Epoxy applied by FBE; Different coating applications are available
Pipe Diameter Compability	From 50mm to DN 3000, custom sizes available
Pressure Rating	PN6 To PN64 - CL150 to CL400

STEEL PUDDLE FLANGE

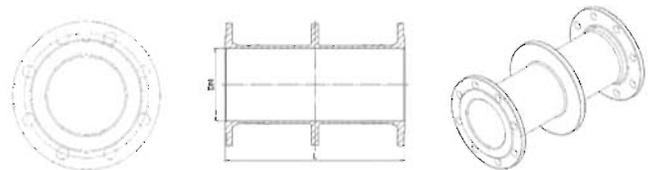


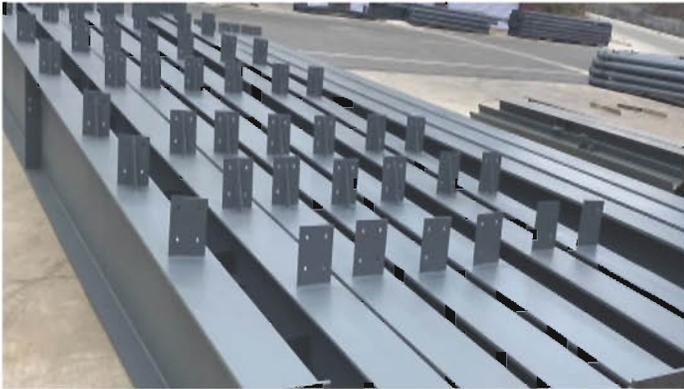
Stainless steel (V2A/AISI 304, V4A/AISI 316TI), Carbon SteelL (ST37, ST42, ST52)

are precision-engineered to ensure the pressure tight embedding of pipelines across a diverse range of materials including steel, plastic, stone-ware, concrete, and cast iron. Our Flanges are suitable for pipe diameters from DN 50 to DN 3000 with customization options.

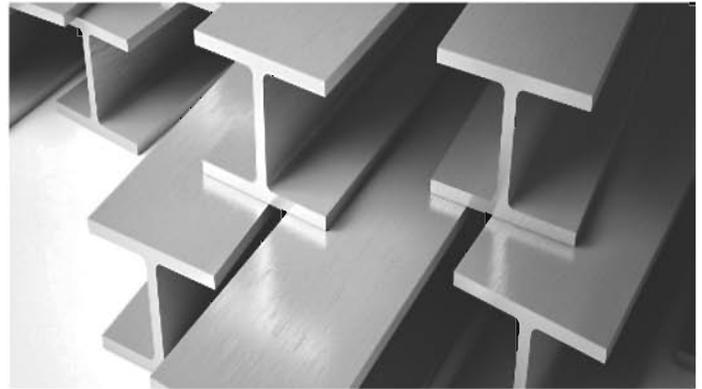
Sleeve Nominal Pipe size(mm)	Inside Diameter (mm)	Lenght (mm)	Height of Collar (mm)	Sleeve Nominal pipe size (mm)	Inside Diameter (mm)	Lenght (mm)	Sleeve Nominal pipe size (mm)
50,8	52,5	300	50	600	590,55	300	50
63,5	62,7	300	50	660,4	641,4	300	50
76,2	77,9	300	50	771,2	692,2	300	50
88,9	90,1	300	50	762	743,0	300	50
101,6	102,3	300	50	812,8	793,8	300	50
127	128,2	300	50	863,6	844,6	300	50
152,4	154,1	300	50	914,4	895,4	300	50
203,2	202,7	300	50	965,2	946,2	300	50
254	254,5	300	50	1016	997,0	300	50
304,8	304,8	300	50	1066,8	1047,8	300	50
355,6	336,6	300	50	1117,6	1098,6	300	50
406,4	387,4	300	50	1168,4	1149,4	300	50
457,2	438,2	300	50	1219,2	1200,2	300	50
508	489,0	300	50	1270	1251,0	300	50
558,8	539,8	300	50	1320,8	1301,8	300	50
609,6	590,6	300	50	1371,6	1352,6	300	50

PRODUCT RANGE





STEEL PRE-FABRICATION



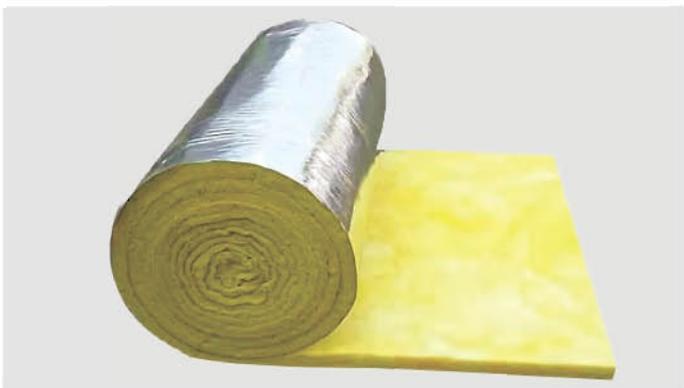
BEAMS AND CHANNEL



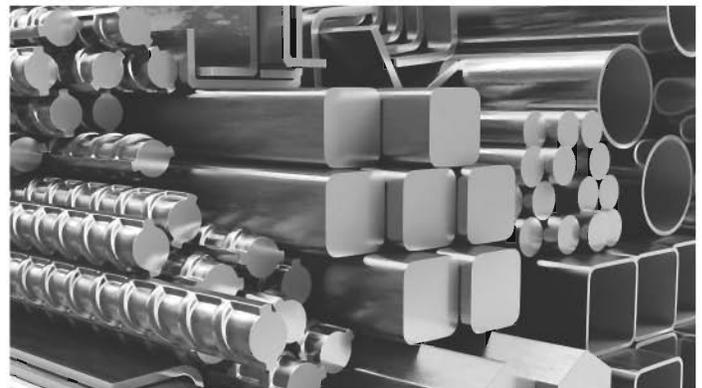
SHEET PILE



STEEL COIL



GLASS WOOL & ROCK WOOL INSULATION



OTHERS CONSTRUCTION MATERIAL

3RD PARTY INSPECTION

19

KING STEEL CORP MAINTAINING THE QUALITY OF SUPPLY.

Third Party Inspection refers to independent inspection services that are provided by inspection agencies.

Pre-Shipment Inspection are a most effective inspection that confirms the whole shipment's quality level. It normally requires the production to be 100% complete and at least 80% of goods to be packed into cartons. Our inspections are performed using specific criteria based on each product's style, function, specifications and other important information.

Container loading inspection has been developed for those clients that not only require reassurance during the container loading process, but also need confirmation that safety and quality requirements are met and that correct goods handling procedures are put in place and adhered to.

VISUAL INSPECTION



DIMENSIONAL INSPECTION AND PMI TEST



PRE-LOADING INSPECTION





PARTNERSHIP WITH
KASUGAI
Co., LTD JAPAN
www.kasugai-group.co.jp



**CARBON STEEL
PIPE AND TUBE**



**STAINLESS STEEL
PIPE AND TUBE**



**COPPER STEEL
PIPE AND TUBE**



**PIPE FITTINGS
AND FLANGES**

Global Capabilities, Professionalism, and Trust.

These three strengths are the reason that customer continue to choose kasugai, reagarless of the period.

Production Standard

ASTM A106, API 5L, API 5CT, DIN,
GB/T ASTM A213, A269, A312,
A511, JIS G3459, G3463, DIN 17456, 17458,
B111, B466, JIS H3300

Main Material Grade

API GR.B-X70,ASTM GR.A GR.B GR.C,ST37
ST42 ST52, J55, K55,L80, N80, P110, 304/L,
304H, 316/L, 321, 317, 310S, S32750,
S31803, S32760, S32205, C70600, C70400,
C70600

Production Size

CS SMLS PIPE OD: 1/2 " to 24"
CS W ELDED PIPE OD: 1/2" to 26"
SS SMLS PIPE OD: 1/4" to 20"
SS W ELDED PIPE OD: 1/4" to 78"
W T: Sch5s to SchXXS
Copper TUBE:OD:5mm-80mm W T:0.5mm-15mm

KASUGAI CO., LTD.

Address:
4-14-2 Shinmachi, Nishi-ku,
Osaka 5500013, Japan



BENKAN PIPES FITTINGS

21

are a range of high-quality steel fittings produced by the Thai Benkan Company. These fittings are designed to be used in a variety of piping systems, including those in the oil and gas, petrochemical, and construction industries. Benkan pipe fittings come in various shapes, including elbows, tees, reducers, and flanges, among others

CONREDUCER



ELBOW



EQUAL TEE



PRODUCTS STANDARD

SIZE(OD)	THICKNESS(MAX)	SPECIFICATION	GRADE
Up to 12"	10.3mm	A403	WP304,WP304L,WP304/304LWX. Sample reducer
Up to 12"	25.4mm	A403	WP316,WP316L
Up to 16"	12.7mm	A403	WP316,WP316L WX
Up to 4"	3.0mm	A403	WP321/321H
Up to 16"	3.0mm	A403	WPS 31254
Up to 16"	9.5mm	A815 Duplex	WPS31803S,WPS32205S,WPS31803WX,WPS32205WX Sample tee
Up to 16"	17.4mm	A815 Duplex	WPS32750WX, WPS32205S,WPS32760WX Sample tee
Up to 6"	11mm	A815 Duplex	WPS 32760S
Up to 4"	7.6mm	A815 Duplex	WPS 32750S
1/2 to 16"	33.3mm	A234	WP 5 CL 1, WP 11 CL1, WP 22 CL1
1/2 to 16"	40.6mm	A234	WPB
Up to 3"	11.1mm	A234	WPC
Up to 12"	17.5mm	A234	WP5 CL3
Up to 12"	17.5mm	A234	WP5 CL3
Up to 16"	21.0mm	A234	WP9 CL1
Up to 12"	33.3mm	A234	WP22 CL3



ENERGY STEEL PIPE

22

Energy Steel Industrial Co., Ltd is a large investment group established in 2010, specialized in steel pipe designning, manufacturing, stocking and exporting in China. As one of the leading supplier of steel products in China.

GALVANIZED STEEL PIPE



ALLOY STEEL PIPE



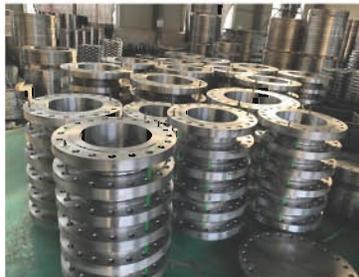
**STAINLESS WELDED
STEEL PIPE**



CARBON STEEL PIPE



FLANGE



PIPE FITTINGS



ERW STEEL PIPE



SSAW STEEL PIPE



**STAINLESS SEAMLESS
STEEL PIPE**



OUR BRANDS

23



NIPPON STEEL & SUMITOMO METAL



DONGKUK STEEL



SLIP ON FLANGE



PIPE		150#	300#	600#	900#	1500#
NOMINAL SIZE IN	OD in. mm.	POUNDS KILO				
1/2"	0.84	0.90	1.40	1.60		3.80
	21.30	0.39	0.64	0.74		1.74
3/4"	1.05	1.20	2.50	2.80		5.20
	26.70	0.56	1.12	1.27		2.34
1"	1.315	1.70	3.00	3.30		7.60
1-1/4"	33.40	0.78	3.36	1.52		3.44
	1.66	2.30	3.70	4.50		8.60
	42.20	1.03	1.68	2.03		3.91
1-1/2"	1.90	2.90	5.50	6.50		11.80
	48.30	1.32	2.49	2.96		5.36
2"	2.38	4.50	6.30	8.00		21.70
	60.30	2.06	2.87	3.62		9.85
2-1/2"	2.88	7.20	9.50	11.60		30.20
	73.00	3.28	4.32	5.28		13.70
3"	3.50	8.50	12.90	15.40	25.60	
3-1/2"	88.90	3.85	5.85	7.00		11.60
	4.00	10.60	16.20	19.50		
4"	101.60	4.81	7.34	8.84		
	4.50	11.70	21.20	31.90		43.90
5"	5.56	13.40	27.10	53.70		70.30
	141.30	6.07	12.30	24.40		31.90
6"	6.63	16.40	34.30	63.20		90.50
	168.30	7.45	15.60	28.70		41.10
8"	8.63	26.70	53.30	95.60		156.00
10"	210.10	12.10	24.20	43.40		70.70
	10.75	36.30	75.10	155.00		223.00
12"	273.00	16.50	34.10	70.30		101.00
	12.75	57.70	110.00	186.00		293.00
14"	323.80	26.20	49.80	84.20		133.00
	14.00	76.20	154.00	217.00		337.00
16"	355.60	34.60	69.90	98.70		153.00
	16.00	98.70	194.00	313.00		408.00
18"	406.40	44.80	88.10	142.00		185.00
	18.00	108.00	240.00	381.00		568.00
20"	457.20	48.90	109.00	173.00		258.00
	20.00	136.00	295.00	485.00		698.00
24"	508.00	61.90	134.00	220.00		317.00
	609.60	191.00	443.00	487.00		1335.00



WELDING NECK FLANGE

PIPE		150#	300#	600#	900#	1500#	2500#
NOMINAL SIZE IN	OD in. mm.	POUNDS KILO					
1/2"	0.84	1.10	1.70	1.90		4.10	6.90
	21.30	0.48	0.75	0.87		1.87	3.12
3/4"	1.05	1.60	2.80	3.20		5.60	8.10
	26.70	0.71	1.26	1.45		2.56	3.70
1"	1.315	2.20	3.50	3.90		8.20	11.50
1-1/4"	33.40	1.01	1.52	1.76		3.74	5.24
	1.66	2.90	4.50	5.50		9.50	17.00
1-1/2"	42.20	1.33	2.03	2.49		4.33	7.74
	1.90	3.80	6.40	7.70		13.10	24.00
2"	48.30	1.72	2.89	3.49		5.94	10.90
	2.38	5.70	7.50	9.60		23.80	35.70
2-1/2"	60.30	2.58	3.40	4.36		10.80	16.20
	2.88	9.10	11.40	14.20		33.00	52.20
3"	73.00	4.11	5.17	6.43		15.00	23.70
	3.50	10.80	15.30	18.80	30.20	43.80	79.70
3-1/2"	88.90	4.92	6.93	8.53		19.90	36.20
	4.00	13.40	19.10	23.60			
4"	101.60	6.08	8.67	10.70			
	4.50	15.10	24.70	38.30		49.50	65.90
5"	114.30	6.84	11.2	17.40		22.50	29.90
	5.56	18.90	33.30	64.30		82.40	122.00
6"	141.30	8.56	15.10	29.20		37.40	55.40
	6.63	23.30	42.40	76.90		105.00	151.00
8"	168.30	10.30	19.10	34.90		47.70	68.40
	8.63	38.60	65.90	119.00		179.00	258.00
10"	219.10	17.60	29.90	53.9		81.30	117.00
	10.75	53.00	94.10	181.00		262.00	427.00
12"	273.00	24.00	42.70	86.50		119.00	194.00
	12.75	80.40	136.00	227.00		346.00	634.00
14"	323.80	36.50	61.80	103.00		157.00	288.00
	14.00	107.00	169.00	269.00		379.00	837.00
16"	355.60	48.40	85.80	122.00		180.00	380.00
	16.00	134.00	234.00	374.00		478.00	1068.00
18"	406.40	60.80	106.00	170.00		217.00	485.00
	18.00	151.00	289.00	449.00		643.00	1419.00
20"	457.20	68.30	131.00	204.00		292.00	844.00
	20.00	186.00	348.00	560.00		797.00	1707.00
24"	508.00	84.50	158.00	254.00		362.00	775.00
	609.60	293.00	507.00	789.00		1465.00	2714.00

BLIND FLANGE



PIPE		150#	300#	600#	900#	1500#	2500#
NOMINAL SIZE IN	OD in. mm.	POUNDS KILO					
1/2"	0.84	0.90	1.40	1.70		3.90	6.60
	21.30	0.42	0.64	0.76		1.77	2.99
3/4"	1.05	1.30	2.40	2.80		5.30	7.70
	26.70	0.61	1.11	1.28		2.42	3.50
1"	1.315	1.90	3.10	3.50		7.90	10.90
1-1/4"	33.40	0.86	1.39	1.60		3.57	4.96
	1.66	2.60	3.90	4.90		9.10	16.20
	42.20	1.17	1.79	2.23		4.14	7.35
1-1/2"	1.90	3.40	5.90	7.20		12.70	22.90
	48.30	1.53	2.66	3.25		5.75	10.40
2"	2.375	5.30	7.00	9.10		22.20	34.40
	60.30	2.42	3.18	4.15		10.10	15.60
2-1/2"	2.875	8.70	10.70	13.50		30.80	49.80
	73.00	3.94	4.85	6.13		14.00	22.60
3"	3.50	10.90	15.00	18.60	28.90	42.10	76.70
3-1/2"	88.90	4.93	6.81	8.44		13.10	19.10
	4.00	13.60	19.20	24.20			
4"	101.60	6.17	8.71	11.00			
	4.50	15.40	25.30	38.10		59.30	65.90
5"	114.30	7.00	11.50	17.30		26.90	29.90
	5.3	19.00	34.40	64.80		80.40	129.00
6"	141.30	8.63	15.60	29.40		36.50	58.40
	2.875	24.90	46.00	79.50		104.00	158.00
8"	188.30	11.30	20.90	36.10		47.40	71.80
	8.825	43.20	75.60	130.00		182.00	289.00
10"	219.10	19.60	34.30	58.90		82.50	122.00
	10.75	63.40	117.00	215.00		269.00	463.00
12"	273.00	28.80	53.30	97.50		122.00	210.00
	12.75	95.20	174.00	273.00		381.00	686.00
14"	323.80	43.20	78.80	124.00		173.00	318.00
	14.00	128.00	231.00	333.00		454.00	925.00
16"	355.60	58.10	105.00	151.00		206.00	420.00
	16.00	167.00	302.00	471.00		571.00	1229.00
18"	406.40	76.00	137.00	214.00		259.00	558.00a
	18.00	206.00	386.00	599.00		808.00	1674.00
20"	457.20	93.70	175.00	272.00		367.00	760.00
	20.00	269.00	487.00	769.00		1020.00	2126.00
24"	508.00	122.00	221.00	349.00		463.00	965.00
	609.60	406.00	747.00	1174.00		1930.00	3432.00



SOCKET WELD FLANGE

PIPE		150#	300#	600#	1500#
NOMINAL SIZE IN	OD in. mm.	POUNDS KILO	POUNDS KILO	POUNDS KILO	POUNDS KILO
1/2"	0.84	0.90	1.50	1.71	4.00
	21.30	0.42	0.66	0.76	1.80
3/4"	1.05	1.30	2.50	2.80	5.30
	26.70	0.59	1.15	1.29	2.41
1"	1.315	1.80	3.10	3.40	7.80
1-1/4"	33.40	0.81	1.40	1.55	3.55
	1.66	2.40	3.90	4.50	8.90
1-1/2"	42.20	1.07	1.75	2.06	4.02
	1.90	3.00	5.60	6.60	12.00
2"	48.30	1.36	2.55	3.00	5.45
	2.38	4.60	6.50	8.10	22.50
2-1/2"	60.30	2.10	2.93	3.67	10.20
	2.88	7.30	9.70	11.80	30.60
3"	73.00	3.33	4.40	5.35	13.90
	3.50	8.60	13.00	15.60	
3"	88.90	3.90	5.92	7.06	

LBOW45 LONG RADIUS RETURN (LR)

NOMINAL PIPE SIZE IN	STD.	XS	XSS	10	20	30	SCHEDULE 40 WEIGHT KG	60	80	100	120	150	160
1"	0.15	0.20	0.34				0.15		0.20				0.27
1-1/4"	0.26	0.35	0.61				0.38		0.35				0.44
1-1/2"	0.38	0.51	0.90				0.58		0.51				0.68
2"	0.88	0.94	1.88				1.18		0.94				1.35
2-1/2"	1.36	1.80	3.21				1.36		1.60				2.35
3"	2.13	2.88	5.18				2.13		2.88				4.02
3-1/2"	2.96	4.11	7.50				2.98		4.11				4.02
4"	4.05	5.64	10.32				4.05		5.64		7.09		6.46
5"	6.66	9.73	18.14				6.86		9.73		12.64		15.46
6"	10.68	18.05	30.00				10.88		18.05		20.46		23.48
8"	21.36	32.27	54.55				21.36		32.27		38.18		45.46
10"	37.73	50.91	98.50				37.73		50.91		60.00		72.27
12"	55.91	73.64	150.00				55.91		73.64		82.73		99.55
14"	71.82	94.55					71.82		94.55		103.85		126.18
16"	94.09	124.00					94.09		124.00		133.18		161.36
18"	119.55	157.73					119.55		157.73		166.18		201.82
20"	148.82	194.55					148.82		194.55		203.36		246.18
22"	178.18	238.36					178.18		238.36		246.18		298.18
24"	212.73	282.73					212.73		282.73		298.18		358.18
26"	250.00	331.82					250.00		331.82		358.18		426.18
28"	337.00	421.10					337.00		421.10		458.18		558.18
30"	393.18	441.82					393.18		441.82		473.18		588.18
32"	451.00	499.00					451.00		499.00		523.18		638.18
34"	515.30	644.10					515.30		644.10		673.18		808.18
36"	485.27	638.55					485.27		638.55		673.18		808.18
38"	638.00	812.00					638.00		812.00		858.18		1028.18
40"	890.00	895.00					890.00		895.00		938.18		1128.18
42"	855.48	870.91					855.48		870.91		908.18		1098.18
44"	886.00	1194.00					886.00		1194.00		1238.18		1488.18
46"	1007.00	1346.00					1007.00		1346.00		1388.18		1638.18
48"	1113.00	1468.00					1113.00		1468.00		1508.18		1788.18



ELBOW90 SHORT RADIUS RETURN (SR)

NOMINAL PIPE SIZE IN	STD.	XS	XSS	10	20	30	SCHEDULE 40 WEIGHT KG	60	80	100	120	150	160
1"	0.10	0.13	0.23				0.10		0.13				0.18
1-1/4"	0.17	0.23	0.41				0.17		0.23				0.29
1-1/2"	0.25	0.33	0.60				0.25		0.33				0.45
2"	0.45	0.60	1.13				0.45		0.60				0.93
2-1/2"	0.87	1.14	2.03				0.87		1.14				1.56
3"	1.38	1.83	3.47				1.38		1.83				2.68
3-1/2"	1.93	2.61					1.93		2.61				
4"	2.62	3.58	6.86				2.62		3.58		4.74		5.82
5"	4.42	6.21	12.02				4.42		6.21		8.43		10.28
6"	6.89	10.30	19.90				6.89		10.30		13.62		16.97
8"	13.80	20.70	36.12				13.80		20.70		25.46		33.82
10"	24.50	32.90	64.94				24.50		32.90		40.21		47.88
12"	36.10	47.20	93.91				36.10		47.20		54.87		66.24
14"	46.30	61.20	32.06				46.30		61.20		73.33		92.68
16"	61.20	80.30	41.97				61.20		80.30		107.52		136.80
18"	77.60	102.10	53.21				77.60		102.10		124.14		153.67
20"	96.20	126.10	65.78				96.20		126.10		153.31		188.88
22"	117.00	154.20	79.89				117.00		154.20		188.88		232.22
24"	138.30	183.30	94.93				138.30		183.30		226.07		284.77
26"	183.80	218.80	138.73				183.80		218.80		274.14		338.33
28"	208.80	258.80	181.03				208.80		258.80		318.14		392.88
30"	217.70	287.80	185.00				217.70		287.80		358.18		448.70
32"	238.80	342.00	210.83				238.80		342.00		417.88		518.77
34"	280.00	395.00	233.00				280.00		395.00		493.75		608.33
36"	313.00	414.10	286.87				313.00		414.10		530.08		658.33
38"	384.70	480.40					384.70		480.40				
40"	395.10	532.10					395.10		532.10				
42"	438.20	590.00					438.20		590.00				
44"	486.30	653.20					486.30		653.20				
46"	547.10	708.70					547.10		708.70				
48"	607.80	759.80					607.80		759.80				

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ELBOW45 LONG RADIUS RETURN (LR)

NOMINAL PIPE SIZE IN	STD.	XS	XSS	10	20	30	SCHEDULE 40 WEIGHT KG	60	80	100	120	150	160
1"	0.11	0.14	0.17				0.11		0.14				0.14
1-1/4"	0.17	0.22	0.31				0.17		0.22				0.22
1-1/2"	0.23	0.29	0.45				0.23		0.29				0.34
2"	0.37	0.49	0.84				0.37		0.49				0.70
2-1/2"	0.74	0.95	1.60				0.74		0.95				1.17
3"	1.10	1.47	2.59				1.10		1.47				2.01
4"	1.95	2.66	5.15				1.95		2.66		3.56		4.21
5"	3.31	4.83	9.05				3.31		4.83		6.33		7.71
6"	10.30	15.40	27.20				10.30		15.40		19.10		23.97
8"	18.30	24.40	48.71				18.30		24.40		30.16		35.40
10"	27.00	35.50	70.44				27.00		35.50		43.13		49.68
12"	34.70	45.40					34.70		45.40		55.75		65.82
14"	45.40	59.90					45.40		59.90		73.33		86.88
16"	58.10	76.20					58.10		76.20		94.09		111.48
18"	71.70	94.30					71.70		94.30		114.99		138.75
20"	87.10	114.80					87.10		114.80		141.80		170.00
22"	103.90	137.00					103.90		137.00		168.00		202.50
24"	122.00	161.00					122.00		161.00		198.00		235.50
26"	154.00	193.00					154.00		193.00		238.00		282.00
28"	182.40	215.50					182.40		215.50		275.10		324.00
30"	193.00	255.00					193.00		255.00		313.42		374.00
32"	210.00	279.00					210.00		279.00		354.24		424.00
34"	235.00	311.20					235.00		311.20		397.55		474.00
36"	272.00	354.00					272.00		354.00				
38"	295.00	397.00					295.00		397.00				
40"	320.70	425.00					320.70		425.00				
42"	383.00	488.00					383.00		488.00				
44"	408.00	530.00					408.00		530.00				
46"	454.00	587.00					454.00		587.00				

ELBOW 180 SHORT RADIUS RETURN (SR)

NOMINAL PIPE SIZE IN	STD.	XS	XSS	30	30	30	SCHEDULE 40 WEIGHT KG	60	80	100	120	140	160
1"	0.21	0.27	0.46				0.21		0.27				0.36
1-1/4"	0.35	0.46	0.82				0.35		0.46				0.58
1-1/2"	0.50	0.66	1.20				0.50		0.66				0.90
2"	0.90	1.23	2.28				0.90		1.23				1.86
2-1/2"	1.78	2.32	4.46				1.78		2.32				3.12
3"	2.78	3.72	6.94				2.78		3.72				5.36
3-1/2"	3.90	5.31					3.90		5.31				
4"	5.28	7.30	13.72				5.28		7.30		9.48		11.24
5"	8.94	12.60	24.04				8.94		12.60		16.86		20.58
6"	13.90	20.70	39.80				13.90		20.70		27.24		33.94
8"	27.90	42.00	72.24				27.90		42.00		50.92		62.84
10"	49.40	66.70	129.88				49.40		66.70		80.42		95.76
12"	72.60	96.30	187.82				72.60		96.30		113.48		138.88
14"	93.20	122.90					93.20		122.90		148.65		180.26
16"	122.50	161.00					122.50		161.00		198.07		244.88
18"	155.10	204.80					155.10		204.80		250.43		309.78
20"	192.30	254.00					192.30		254.00		313.37		388.28
24"	277.80	367.40					277.80		367.40		451.13		558.80

TEE (STRAIGHT)

NOMINAL PIPE SIZE IN	STD.	XS	XSS	10	20	30	SCHEDULE 40 WEIGHT KG	60	80	100	120	150	160
1"	0.15	0.19	0.34				0.15						



CONCENTRIC REDUCER

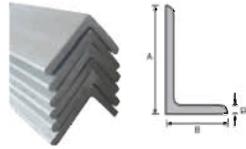


ECCENTRIC REDUCER2

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NOMINAL PIPE SIZE IN	STD.	XS	10	20	20	SCHEDULE 40 WEIGHT KG.	60	80	100	120	140	160
24x10"	72.60	95.80		71.60	106.45	129.81	180.35	224.41	277.90	360.00	520.00	580.00
x12"	72.60	95.80		71.60	106.45	129.81	180.35	224.41	277.90	360.00	520.00	580.00
x14"	72.60	95.80	52.86	71.60	106.45	129.81	180.35	224.41	277.90	360.00	520.00	580.00
x16"	72.60	95.80	53.86	71.60	106.45	129.81	180.35	224.41	277.90	360.00	520.00	580.00
x18"	74.00	97.60	54.94	73.03	106.58	132.20	163.96	226.90	283.55	394.00	570.00	610.00
x20"	75.80	99.90	55.95	74.46	110.71	134.79	187.56	233.39	289.11	394.00	570.00	610.00
x22"	75.80	99.90	55.95	74.46	110.71		187.56	233.39	289.11	394.00	570.00	610.00
26x12"	90.70	123.00		123.00								
x14"	90.70	123.00	75.45	123.00								
x16"	90.70	123.00	75.45	123.00								
x18"	90.70	123.00	75.45	123.00								
x20"	90.70	123.00	75.45	123.00								
x22"	90.70	123.00	75.45	123.00								
x24"	90.70	123.00	75.45	123.00								
28x14"	95.30	132.00	79.30	131.43	166.03							
x16"	95.30	132.00	79.30	131.43	166.03							
x18"	95.30	132.00	79.30	131.43	166.03							
x20"	95.30	132.00	79.30	131.43	166.03							
x22"	95.30	132.00	79.30	131.43	166.03							
x24"	95.30	132.00	79.30	131.43	166.03							
x26"	95.30	132.00	79.30	131.43								
30x18"	100.00	143.00	83.20	142.13	176.18							
x16"	100.00	143.00	83.20	142.13	176.18							
x20"	100.00	143.00	83.20	142.13	176.18							
x22"	100.00	143.00	83.20	142.13	176.18							
x24"	100.00	143.00	83.20	142.13	176.18							
x26"	100.00	143.00	83.20	142.13								
x28"	100.00	143.00	83.20	142.13	176.18							
32x18"	115.00	150.00	95.70	150.00	190.29							
x18"	115.00	150.00	95.70	150.00	190.29							
x20"	115.00	150.00	95.70	150.00	190.29							
x22"	115.00	150.00	95.70	150.00	190.29							
x24"	115.00	150.00	95.70	150.00	190.29							
x26"	115.00	150.00	95.70	150.00								
x28"	115.00	150.00	95.70	150.00	190.29							
x30"	115.00	150.00	95.70	150.00	190.29							
34x18"	112.00	157.00	112.35	157.00	202.42							
x18"	112.00	157.00	112.35	157.00	202.42							
x20"	112.00	157.00	112.35	157.00	202.42							
x22"	112.00	157.00	112.35	157.00	202.42							
x24"	112.00	157.00	112.35	157.00	202.42							
x26"	112.00	157.00	112.35	157.00								
x28"	112.00	157.00	112.35	157.00	202.42							
x30"	112.00	157.00	112.35	157.00	202.42							
x32"	112.00	157.00	112.35	157.00	202.42							
36x16"	129.00	172.00	123.00	172.00	221.00							
x18"	129.00	172.00	123.00	172.00	221.00							
x20"	129.00	172.00	123.00	172.00	221.00							
x22"	129.00	172.00	123.00	172.00	221.00							
x24"	129.00	172.00	123.00	172.00	221.00							
x26"	129.00	172.00	123.00	172.00	221.00							
x28"	129.00	172.00	123.00	172.00	221.00							
x30"	129.00	172.00	123.00	172.00	221.00							
x32"	129.00	172.00	123.00	172.00	221.00							
x34"	129.00	172.00	123.00	172.00	221.00							
40x20"	143.00	193.00										
x24"	143.00	193.00										
x26"	143.00	193.00										
x28"	143.00	193.00										
x30"	143.00	193.00										
x32"	143.00	193.00										
x34"	143.00	193.00										
x36"	143.00	193.00										
x38"	143.00	193.00										
42x24"	152.00	201.00										
x26"	152.00	201.00										
x28"	152.00	201.00										
x30"	152.00	201.00										
x32"	152.00	201.00										
x34"	152.00	201.00										
x36"	152.00	201.00										
x38"	152.00	201.00										
x40"	152.00	201.00										
44x26"	159.00	211.00										
x28"	159.00	211.00										
x30"	159.00	211.00										
x32"	159.00	211.00										
x34"	159.00	211.00										
x36"	159.00	211.00										
x38"	159.00	211.00										
x40"	159.00	211.00										
x42"	159.00	211.00										

NOMINAL PIPE SIZE IN	STD.	XS	XSS	10	20	30	SCHEDULE 40 WEIGHT KG.	60	80	100	120	140	160
1x1/2"	0.14	0.16					0.14		0.16				0.22
x3/4"	0.14	0.17					0.14		0.17				0.22
1-1/4"	0.19	0.22	0.40				0.19		0.22				0.29
x1/2"													
x3/4"	0.20	0.23	0.42				0.20		0.23				0.30
x1"	0.20	0.24	0.42				0.20		0.24				0.30
1-1/2"	0.20	0.26	0.61				0.20		0.26				0.46
x1/2"													
x3/4"	0.22	0.27	0.67				0.22		0.27				0.51
x1"	0.24	0.31	0.73				0.24		0.31				0.55
x1-1/4"	0.26	0.33	0.79				0.26		0.33				0.60
2x3/4"	0.33	0.46	1.02				0.33		0.46				0.64
x1"	0.37	0.45	1.14				0.37		0.45				0.94
x1-1/4"	0.39	0.53	1.20				0.39		0.53				0.99
x1-1/2"	0.41	0.54	1.26				0.41		0.54				1.04
2-1/2x1"	0.59	0.79	1.62				0.59		0.79				1.33
x1-1/4"	0.67	0.79	2.07				0.67		0.79				1.52
x1-1/2"	0.68	0.88	2.09				0.68		0.88				1.53
x2"	0.73	0.94	2.28				0.73		0.94				1.65
3x1-1/4"	0.77	1.04	2.48				0.77		1.04				1.89
x1-1/2"	0.86	1.04	2.76				0.86		1.04				2.12
x2"	0.91	1.18	2.90				0.91		1.18				2.23
x2-1/2"	0.98	1.29	3.12				0.98		1.29				2.40
3-1/2x1"	1.14	1.43					1.14		1.43				
-1/2"													
x2"	1.23	6.81					1.23		1.81				
x2-1/2"	1.34	1.75					1.34		1.75				
x3"	1.38	1.85					1.38		1.85				
4x1-1/2"	1.24	1.73	4.18				1.24		1.73				3.42
x2"	1.44	1.78	4.85				1.44		1.78				3.97
x2-1/2"	1.52	2.01	5.14				1.52		2.01				4.21
x3"	1.59	2.13	5.35				1.59		2.13				4.38
x3-1/2"	1.64	2.21					1.64		2.21				
5x2"	2.29	3.00	7.29				2.29		3.00				6.23
x2-1/2"	2/51	3.30	8.02				2.51		3.30				6.68
x3"	2.60	3.55	8.31				2.60		3.55				7.10
x3-1/2"	2.66	3.65					2.66		3.65				
x4"	2.72	3.78	8.68				2.72		3.78		6.09		7.41
6x2-1/2"	3.45	4.52	11.09				3.45		4.52				9.46
x3"	3.83	5.04	11.64				3.63		5.04				9.93
x3-1/2"	3.69	5.27					3.69		5.27				
x4"	3.72	5.45	11.98				3.72		5.45		6.20		11.22
x5"	3.93	5.72	12.64				3.93		5.72		8.85		10.78
6x3-1/2"	5.81	7.31					5.81		7.31				
x4"	5.95	8.44	16.73				5.95		8.44				17.25
x5"	6.06	8.85	17.22				6.06		8.85		14.03		17.76
x6"	6.31	9.28	17.88				6.31		9.28		14.99		18.43
10x4"	9.58	11.50	27.61		</								

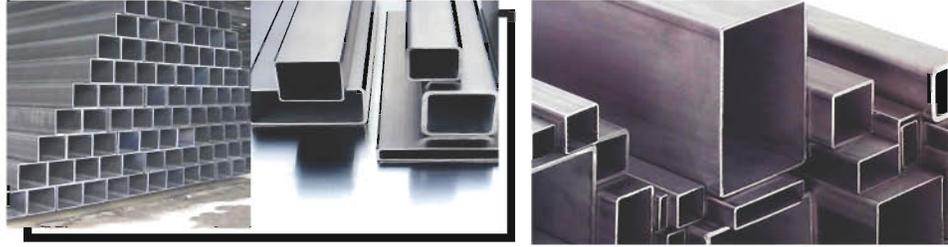


EQUAL ANGLE			
Size (mm)	Theoretical weight(kg/m)	Size (mm)	Theoretical weight(kg/m)
20x20x3	0.869	90x90x7	9.656
25x25x3	1.124	90x90x8	10.946
25x25x4	1.459	90x90x10	13.476
30x30x3	1.373	100x100x6	9.386
30x30x4	1.766	100x100x7	10.83
40x40x3	1.852	100x100x8	12.276
40x40x4	2.422	100x100x10	15.12
40x40x5	2.976	100x100x12	17.898
45x45x4	2.736	110x110x8	13.532
50x50x4	3.059	110x110x10	16.69
50x50x5	3.77	110x110x12	19.782
50x50x6	4.465	125x125x8	15.504
56x56x4	3.446	125x125x10	19.133
56x56x5	4.251	125x125x12	22.698
56x56x6	5.06	125x125x14	26.293
63x63x5	4.822	140x140x10	21.488
63x63x6	5.721	140x140x12	25.522
63x63x8	7.469	140x140x14	29.49
70x70x5	5.397	160x160x10	24.729
70x70x6	5.405	160x160x12	29.391
70x70x7	7.398	160x160x14	33.987
70x70x8	6.373	160x160x16	33.518
75x75x5	5.818	180x180x14	38.383
75x75x6	6.905	180x180x16	43.542
75x75x7	7.976	180x180x18	48.634
75x75x8	9.03	200x200x14	42.894
80x80x6	7.376	200x200x16	48.68
80x80x7	8.525	200x200x18	54.401
80x80x8	9.658	200x200x20	60.056
90x90x6	8.35		

UNEQUAL ANGLE			
Size (mm)	Theoretical weight(kg/m)	Size (mm)	Theoretical weight(kg/m)
25x16x3	0.912	100x63x6	7.55
32x20x3	1.171	100x63x7	8.722
40x25x3	1.484	100x63x8	9.878
40x25x4	1.936	100x63x10	12.142
40x28x3	1.687	100x80x7	9.658
40x28x4	2.203	100x80x8	10.946
45x30x4	2.251	100x80x10	13.476
50x32x3	1.908	110x70x8	10.946
50x32x3	2.494	110x70x10	13.476
56x36x3	2.153	125x80x8	12.551
56x36x4	2.818	125x80x10	15.474
56x36x5	3.466	125x80x12	18.33
63x40x4	3.185	140x90x8	14.16
63x40x5	3.92	140x90x10	17.475
63x40x6	4.638	140x90x12	20.724
63x40x7	5.339	160x100x10	19.872
75x50x5	5.339	160x100x12	23.592
75x50x6	4.808	160x100x14	27.247
75x50x7	5.699	180x110x10	22.273
75x50x8	7.431	180x110x12	25.464
80x50x6	5.935	180x110x14	30.589
90x58x8	6.717	200x125x12	29.761
90x56x7	7.756	200x125x14	34.435
90x56x8	8.779		

MATERIAL:

Carbon Steel: ASTM A36, SS400, Q235B, Q345B
 ASTM A572, ASTM A500
 Stainless Steel: ASTM A240-TP316L/ 304L



CARBON STEEL SQUARE AND RECTANGLE PIPES

Square pipe size (mm)		Rectangular size (mm)	
16x16x0.4~1.5	380x380x8.0~14.0	10x20x0.6~1.5	250x150x6~12.0
18x18x0.4~1.5	400x400x8.0~14.0	14x21x0.6~1.5	250x100x6~12.0
20x20x0.4~1.5	420x420x10.0~14.0	15x30x1.5~1.5	250x200x6~12.0
25x25x0.6~2.0	450x450x10.0~14.0	15x38x0.6~1.5	300x150x6~12.0
30x30x0.6~4.0	480x480x10.0~14.0	20x30x0.6~2.0	300x200x6~12.0
34x34x1.0~2.0	500x500x10.0~14.0	20x40x0.8~2.0	300x250x6~12.0
35x35x1.0~4.0		20x50x1.0~2.0	400x250x8~12.0
38x38x1.0~4.0		22x35x0.9~2.0	400x300x8~12.0
40x40x1.0~4.5	Cold drawn pipe size as following	25x40x0.9~3.75	450x200x8~12.0
44x44x1.0~4.5		25x65x1.0~2.0	450x250x8~12.0
45x45x1.0~5.0	550x550x10.0~40.0	30x40x1.0~3.75	400x300x8~12.0
50x50x1.0~5.0	600x600x10.0~40.0	30x45x1.0~3.75	400x350x8~12.0
60x60x1.5~5.0	700x700x10.0~40.0	30x50x1.0~4.0	500x200x10~12.0
70x70x2.0~6.0	800x800x10.0~50.0	30x60x1.0~4.5	500x250x10~12.0
75x75x2.0~6.0	900x900x10.0~50.0	40x50x1.0~4.5	500x300x10~12.0
80x80x2.0~6.0	1000x1000x10.0~50.0	40x60x1.0~5.0	500x350x10~12.0
85x85x2.0~6.0		40x80x1.5~5.0	500x400x10~12.0
95x95x2.0~8.0		40x100x2.0~5.0	500x450x10~12.0
100x100x2.0~8.0		50x60x2.0~5.0	Cold drawn pipe size as following
120x120x4.0~8.0		50x80x2.0~5.0	600x200x10~28.0
150x150x6.0~10.0		50x100x2.0~8.0	600x400x10~28.0
180x180x6.0~12.0		60x80x2.0~6.0	600x500x10~28.0
200x200x6.0~12.0		60x100x2.0~8.0	800x400x10~28.0
220x220x6.0~14.0		120x60x2.5~10.0	800x600x10~28.0
250x250x6.0~14.0		120x80x2.5~10.0	800x700x10~28.0
280x280x6.0~14.0		150x100x2.5~12.0	1000x400x10~28.0
300x300x8.0~14.0		180x150x2.5~12.0	1000x500x10~28.0
320x320x8.0~14.0		200x100x4~12.0	1000x600x10~28.0
350x350x8.0~14.0		200x150x4~12.0	1000x800x10~28.0

MATERIAL:

Carbon Steel: ASTM A36, SS400, Q235B, Q345B
 ASTM A572, ASTM A500
 Stainless Steel: ASTM A240-TP316L/ 304L

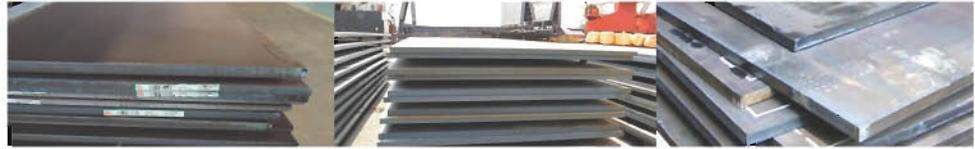


MILD STEEL PLATES

Metric units (7.85kg/mm m² - 0.7293 kg/mm ft²)

Thickness t mm	Unit Weight M kg	Width x Length,ft					
		4x8 32	5x10 50	5x20 100	6x20 120	8x20 160	8x30 240
1.2	0.8752	28.00	-	-	-	-	-
1.5	1.0939	35.00	-	-	-	-	-
1.6	1.1670	37.34	-	-	-	-	-
2.0	1.4587	46.67	-	-	-	-	-
2.3	1.6770	53.67	-	-	-	-	-
2.5	1.8233	58.34	-	-	-	-	-
3.0	2.1880	70.00	109.38	-	-	-	-
4.0	3.9170	93.34	145.84	292.00	-	-	-
4.5	3.2820	105.00	164.07	328.14	-	-	-
5.0	3.6460	116.67	182.30	364.60	-	-	-
6	4.3760	140.01	218.76	437.52	525.02	700.03	1,050.05
7	5.1050	163.34	255.22	510.44	612.53	816.70	1,225.06
8	5.8340	186.68	291.68	583.36	700.03	933.38	1,400.06
9	6.5640	210.01	328.14	656.28	787.54	1,050.05	1,575.07
10	7.2930	233.34	364.60	729.20	875.04	1,166.72	1,750.08
11	8.0220	256.68	401.06	802.12	962.54	1,283.39	1,925.09
12	8.7520	280.01	437.52	875.04	1,050.05	1,400.06	2,100.10
15	10.9400	350.02	546.90	1,093.80	1,312.56	1,750.08	2,625.12
16	11.6700	373.35	583.36	1,166.72	1,400.06	1,866.75	2,800.13
17	12.4000	396.68	619.82	1,239.64	1,487.57	1,983.42	2,975.14
18	13.1300	420.02	656.28	1,312.56	1,575.07	2,100.10	3,150.14
19	13.8600	443.35	692.74	1,385.48	1,662.58	2,216.77	3,325.15
20	14.5900	466.69	729.20	1,458.40	1,750.08	2,333.44	3,500.16
21	15.3200	490.02	765.66	1,531.32	1,837.58	2,450.11	3,675.17
22	16.0400	513.36	802.12	1,604.24	1,925.09	2,566.78	3,850.18
24	17.5000	560.03	875.04	1,750.08	2,100.10	2,800.13	4,200.19
25	18.2300	583.36	911.50	1,823.00	2,187.60	2,916.80	4,375.20
26	18.9600	606.69	947.96	1,895.92	2,275.10	3,033.47	4,550.21
28	20.4200	653.36	1,020.88	2,041.76	2,450.11	3,266.82	4,900.22
30	21.8800	700.03	1,093.80	2,187.60	2,625.12	3,500.16	5,250.24
32	32.3400	746.70	1,166.72	2,333.44	2,800.13	3,733.50	5,600.26
35	25.5220	816.70	1,276.10	2,552.20	3,062.64	4,083.52	6,125.28
36	26.2500	840.04	1,312.56	2,625.12	3,150.14	4,200.19	6,300.29
38	27.7100	886.71	1,385.48	2,770.96	3,325.15	4,433.54	6,650.30
40	29.1700	933.38	1,458.40	2,916.80	3,500.16	4,666.88	7,000.32
44	32.0848	1,026.71	1,604.24	3,208.48	3,850.18	5,133.57	7,700.35
45	32.8200	1,050.05	1,640.70	3,281.40	3,937.68	5,250.24	7,875.36
50	36.4600	1,166.72	1,823.00	3,646.00	4,375.20	5,833.60	8,750.40
55	40.1100	1,283.39	2,005.30	4,010.60	4,812.72	6,416.96	9,625.44
57	41.5644	1,330.06	2,078.22	4,156.44	4,987.73	6,650.30	9,975.46
60	43.7600	1,400.06	2,187.60	4,375.20	5,250.24	7,000.32	10,500.48
65	47.4000	1,516.74	2,369.90	4,739.80	5,687.76	7,583.68	11,375.52
70	51.0500	1,633.41	2,552.20	5,104.40	6,125.28	8,167.04	12,250.56
75	54.6964	1,750.08	2,734.50	5,469.00	6,562.80	8,750.40	13,125.60
80	58.3400	1,866.75	2,916.80	5,833.60	7,000.32	9,333.76	14,000.64
90	65.6400	2,100.10	3,281.40	6,562.80	7,875.36	10,500.48	15,750.72
100	72.9300	2,333.44	3,646.00	7,292.00	8,750.40	11,667.20	17,500.80
110	80.2200	2,566.78	4,010.60	8,021.20	9,625.44	12,833.92	19,250.88
120	87.5200	2,800.13	4,375.20	8,750.40	10,500.48	14,000.64	21,000.96
130	94.8100	3,033.47	4,739.80	9,479.60	11,375.52	15,167.36	22,751.04
140	102.1000	3,266.82	5,104.40	10,208.80	12,250.56	16,334.08	24,501.12
150	109.4000	3,500.16	5,469.00	10,938.00	13,125.60	17,500.80	26,251.20

Spec: ASTM A36, BS 4360 GR43A, JIS G3101 SS400.....
 ASTM A238C, A379, Q235B, Q345B, S275 JR



BOILER PLATES

Thickness in	Width x Length 6' x 20'		Width x Length 6' x 20'		Width x Length 6' x 20'	
	Calculated Weight kg/pc	lb/pc	Calculated Weight kg/pc	lb/pc	Calculated Weight kg/pc	lb/pc
1/8	278	613	371	818	556	1,226
3/16	416	917	555	1,224	832	1,834
1/4	556	1,226	741	1,634	1,111	2,449
5/16	695	1,532	927	2,044	1,387	3,058
3/8	834	1,839	1,100	2,425	1,699	3,680
7/16	972	2,143	1,296	2,857	1,944	4,286
1/2	1,112	2,452	1,482	3,267	2,222	4,899
5/8	1,390	3,064	1,853	4,085	2,780	6,129
3/4	1,667	3,675	2,222	4,899	3,332	7,346
7/8	1,946	4,290	2,591	5,712	3,890	8,576
1	2,223	4,901	2,963	6,532	4,445	9,800
1-1/8	2,502	5,516	3,339	7,361	4,997	11,016
1-1/4	2,780	6,129	3,425	7,551	5,560	12,258
1-1/2	3,335	7,352	4,445	9,800	6,668	14,700
1-3/4	3,887	8,569	5,194	11,451	7,772	17,134
2	4,450	9,811	5,921	13,054	8,900	19,621
2-1/4	9,997	11,016	6,663	14,689	9,994	22,033
2-1/2	5,551	12,238	7,402	16,319	11,102	24,476
3	6,662	14,687	8,883	19,584	13,324	29,374
3-1/2	7,772	17,134	10,363	22,846	15,544	34,269
4	8,882	19,581	11,843	26,109	17,764	39,163
5	11,102	24,476	14,803	32,635	22,204	48,951
6	13,322	29,370	17,763	39,161	26,644	58,740

Spec: ASTM SA516 GR70(N), ASME SA516 GR70(N)

KING STEEL CORP PIPE SCHEDULE ASME B16.10

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Nominal Pipe Size m.m./inch	O.D m.m	5S	10S	10	20	30	STD	40S	40	60	XS	80S	80	100	120	140	160	XXS
6 1/8	10.3		1.24 0.28				1.73 0.37	1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47	2.41 0.47					
8 1/4	13.7		1.65 0.51				2.24 0.63	2.24 0.64	2.24 0.63		3.02 0.80	3.02 0.82	3.02 0.80					
10 3/8	17.1		1.65 0.64				2.31 0.84	2.31 0.86	2.31 0.84		3.20 1.10	3.20 1.12	3.20 1.10					
15 1/2	21.3	1.65 0/82	2.11 1.01				2.77 1.27	2.77 1.30	2.77 1.27		3.73 1.62	3.73 1.65	3.73 1.62				4.78 1.95	7.47 2.55
20 3/4	26.7	1.65 1.04	2.11 1.31				2.87 1.69	2.87 1.71	2.87 1.69		3.91 2.20	3.91 2.22	3.91 2.20				5.56 2.90	7.82 3.61
25 1	33.4	1.65 1.33	2.77 1.13				3.38 2.50	3.38 2.55	3.38 2.50		4.55 3.24	4.55 3.29	4.55 3.24				6.35 4.24	9.09 5.45
32 1 1/4	42.2	1.65 1.68	2.77 1.76				3.56 3.39	3.56 3.46	3.56 3.39		4.85 4.47	4.85 4.56	4.85 4.47				6.35 5.61	9.71 7.77
40 1 1/2	48.3	1.65 1.95	2.77 3.10				3.68 4.05	3.68 4.13	3.68 4.05		5.08 5.41	5.08 5.51	5.08 5.41				7.14 7.25	10.15 9.55
50 2	60.3	1.65 2.44	2.77 4.01				3.91 5.44	3.91 5.54	3.91 5.54		5.54 7.48	5.54 7.63	5.54 7.48				8.74 11.11	11.07 13.44
65 2 1/2	73.0	2.11 3.77	3.05 5.36				5.16 8.63	5.16 8.81	5.16 8.63		7.01 11.41	7.01 11.64	7.01 11.41				9.53 14.92	14.02 20.39
80 3	88.9	2.11 4.60	3.05 6.59				5.49 11.29	5.49 11.52	5.49 11.29		7.62 15.27	7.62 15.59	7.62 15.27				11.13 21.35	15.24 27.68
90 3 1/2	101.6	2.11 5.29	3.05 7.55				5.74 13.57	5.74 13.84	5.74 13.57		8.08 18.63	8.08 19.01	8.08 19.63					
100 4	114.3	2.11 5.96	3.05 8.52				6.02 16.07	6.02 16.40	6.02 16.07		8.56 22.32	8.56 22.77	8.56 22.32	11.13 28.32			13.49 33.54	17.12 41.03
125 5	141.3	2.77 9.67	3.40 11.82				6.55 21.77	6.55 22.20	6.55 21.77		9.53 30.97	9.53 31.59	9.53 30.97	12.70 40.28			15.88 49.11	19.05 57.43
150 6	168.3	2.77 11.55	3.40 14.13				7.11 28.26	7.11 28.83	7.11 28.26		10.97 42.56	10.97 43.42	10.97 42.56	14.27 54.20			18.26 67.56	21.95 79.22
200 8	219.1	2.77 15.09	3.76 20.37		6.35 33.31	7.04 36.81	8.18 42.55	8.18 43.39	8.18 42.55	10.31 53.08	12.70 64.64	12.70 65.95	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92
250 10	273.1	3.40 23.08	4.19 28.34		6.35 41.77	7.80 51.03	9.27 60.31	9.27 61.52	9.27 60.31	12.70 81.55	12.70 81.55	12.70 83.19	15.09 96.01	18.26 114.75	21.44 133.06	25.40 155.15	28.58 172.33	25.4 155.15
300 12	323.9	3.96 31.89	4.57 36.73		6.35 49.73	8.38 65.20	9.53 73.88	9.53 75.32	9.53 73.88	10.31 79.73	14.27 108.96	12.70 97.46	12.70 99.43	17.48 132.08	21.44 159.91	25.40 186.75	28.58 208.14	25.4 186.97
350 14	355.6	3.96 35.06	4.78 42.14	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33		11.13 94.55	15.09 126.71	12.70 107.39		19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70	
400 16	406.4	4.19 42.41	4.78 48.26	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27		12.70 123.30	16.66 160.12	12.70 123.30		21.44 203.53	26.19 245.56	30.96 286.64	36.53 333.19	40.49 365.35	
450 18	457.2	4.19 47.77	4.78 54.36	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16		14.27 155.80	19.05 205.74	12.70 139.15		23.88 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37	
500 20	508.0	4.78 60.46	5.54 70.00	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15		15.09 183.42	20.62 247.83	12.70 155.12		26.19 311.17	32.54 381.53	38.10 441.49	44.45 506.11	50.01 564.81	
550 22	558.8	4.78 66.57	5.54 77.06	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13		17.48 22.23	24.61 294.25	12.70 171.09		28.54 373.83	34.93 451.42	41.28 527.02	47.36 600.63	53.98 672.26	
600 24	609.6	5.54 84.16	6.35 96.37	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12		17.48 255.41	24.61 355.26	12.70 187.06		30.96 442.08	38.89 547.71	46.02 640.03	52.37 720.15	59.54 808.22	
650 26	660.4			7.92 127.36	12.70 202.72		9.53 152.87				12.70 202.72							
700 28	711.2			7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85				12.70 218.69							
750 30	762.0	6.35 120.72	7.92 150.36	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84				12.70 234.67							
800 32	812.8			7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82		17.48 342.91		12.70 250.64							
850 34	863.6			7.92 167.20	12.70 266.61	15.88 332.12	9.53 202.31		17.48 364.90		12.70 266.61							
900 36	914.4			7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56		19.05 420.40		12.70 282.27							
950 38	965.2						9.53 224.54				12.70 298.24							
1000 40	1016.0						9.53 236.53				12.70 314.22							
1050 42	1066.8						9.53 248.52				12.70 330.19							
1100 44	1117.8						9.53 260.50				12.70 346.16							
1150 46	1168.4						9.53 272.25				12.70 351.82							
1200 48	1219.2						9.53 284.24				12.70 377.79							

WALL THICKNESS = mm

WEIGHT = kg/m



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0949-848-0673(Smart) / 0952-453-8747(Globe)



Pacita, San Vicente, San Pedro,
4023 Laguna

The background of the entire page is a photograph of a large, industrial steel structure, possibly a bridge or a large building under construction. The structure is composed of a complex network of dark steel beams and supports, creating a grid-like pattern. The lighting is dramatic, with strong shadows and highlights, giving it a sense of depth and scale. The image is partially obscured by yellow and black geometric shapes that frame the content.

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