



# BETTERWAY

YOUR TRUSTED SOURCE FOR QUALITY



## Professional Steel Structure Manufacturing Introduction



## Company Profile for Industrial Sector

Betterway LLC is a joint-venture USA based company co-founded and majority owned by Shenzhen Lantern Science Co., Ltd.(Stock code: 831118) Strategically located at California USA. Founded in 1993, Lantern Science has grown from originally personal care OEM into a manufacture conglomerate powerhouse with over 30 factories including consumables and industrials which cover steel/aluminum sections.

As a leading Manufacturer with 30 years of history exposure in the US, China, Canada and worldwide, we have retained our passion in understanding customer's needs, knowing the target market, and providing sales and excellent quality of products within the industry. Our in-house laboratories provide the ability to improve your existing formulations, and further create additional formulations to meet not only your specific requirements in quality specifications, but in price point as well. Our major production facilities all met with good manufacturing practices (GMP), ISO, ASTM we are able to provide large quantities in short period of time.

# Industrial Manufacturing Intro



## Light steel structure

Light steel structure is a young and very vital steel structure system that has been widely used in general site, agricultural, commercial and service buildings such as office buildings, warehouses, stadiums, entertainment, tourism buildings and low and multi-story residential buildings.



## Grid structure

It is a space structure made of multiple rods connected by nodes according to a certain grid form. It has the advantages of small spatial force, light weight, high stiffness and good seismic performance; it can be used as the roof of buildings such as gymnasiums, theaters, exhibition halls, waiting halls, stadium grandstand canopies, aircraft hangars, two-way large column spacing workshops. The disadvantage is that the number of rods intersecting the nodes is large and the production and installation is more complicated than that of flat structure.



## Steel frame structure

Steel frame is a structure made mainly of steel, which is one of the main types of building structures. It has the characteristics of high strength, light weight and high stiffness. High strength, light weight, high stiffness, so it is used to build large span and super high, super heavy buildings are particularly suitable; material homogeneity and isotropic good, is an ideal elastomer, the most consistent with the basic assumptions of general engineering mechanics; material plasticity, toughness, can have a large deformation, can well withstand dynamic loads.



## Heavy steel structure

1. plant crane lifting weight: >25 tons.
  - 2, the amount of steel used per square meter: > 50KG/M<sup>2</sup>.
- Such as: petrochemical plant facilities, power plant plants, large-span stadiums, exhibition centers, high-rise or super high-rise steel structures.



## Pipe truss structure

Pipe joint is a lattice structure made of round rod members connected with each other at the end. The trusses make the truss structure economical in material and light in weight, and can be easily formed into various shapes to suit different purposes, such as simple truss, arch, frame and tower.



## Membrane structure building

The membrane structure is a form of spatial structure that can withstand certain external load by forming a stable surface with high strength flexible film material under the tension and pressure of other materials. It is free, light, soft, full of power, flame retardant, easy to make, quick to install, energy saving, easy to construct, safe to use, etc., thus making it widely used in the world.

# Product display

## Steel Structure Warehouse



### Price

\$20-\$60/square meters  
MOQ: 100 square meters  
(Steel structure products will be affected by the fluctuation of steel raw material market prices, please consult customer service for specific prices.)

### Lead time

1-1000square meters 17days  
1001 -3000 square meters 28days  
3001-5000square meters 31days

### customized

LOGO  
customization:  
200 Square Meters  
Packaging  
Customization:  
200 Square Meters  
Pattern  
customization :  
200 Square Meters

## Product display

## Steel Structure Workshop



### Price

\$20~\$60/square meters  
MOQ: 100 square meters  
(Steel structure products will be affected by the fluctuation of steel raw material market prices, please consult customer service for specific prices.)

### Lead time

1-1000 square meters: 17days  
1001 -3000 square meters: 28days  
3001-5000 square meters: 31days

### customized

LOGO  
customization:  
500 Square Meters  
Packaging  
Customization:  
500 Square Meters  
Pattern  
customization :  
500 Square Meters



## Steel structure cowshed

Customized support

Steel structure farm house

Steel structures are often used in farm house,with low cost ,fast construction,high strength and recyclability.

Rendering display :Farm poultry house.

Place of origin: Shandong/Hebei

Usage life :About 50 years

Span: 1 to 4 spans;width :5 to 70m ;length: arbitrary.

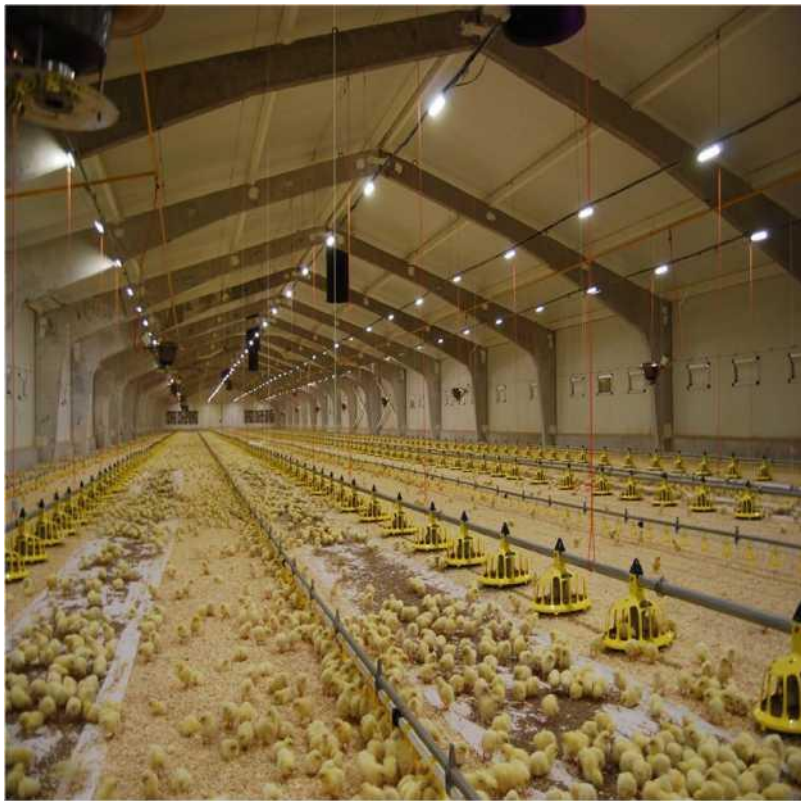
Use:used in cowshed,goat house,chicken house,ect.

Customizable options:Size of building.Amount and dimension of doorand window

Price:  
\$20-\$60  
Square  
Meters

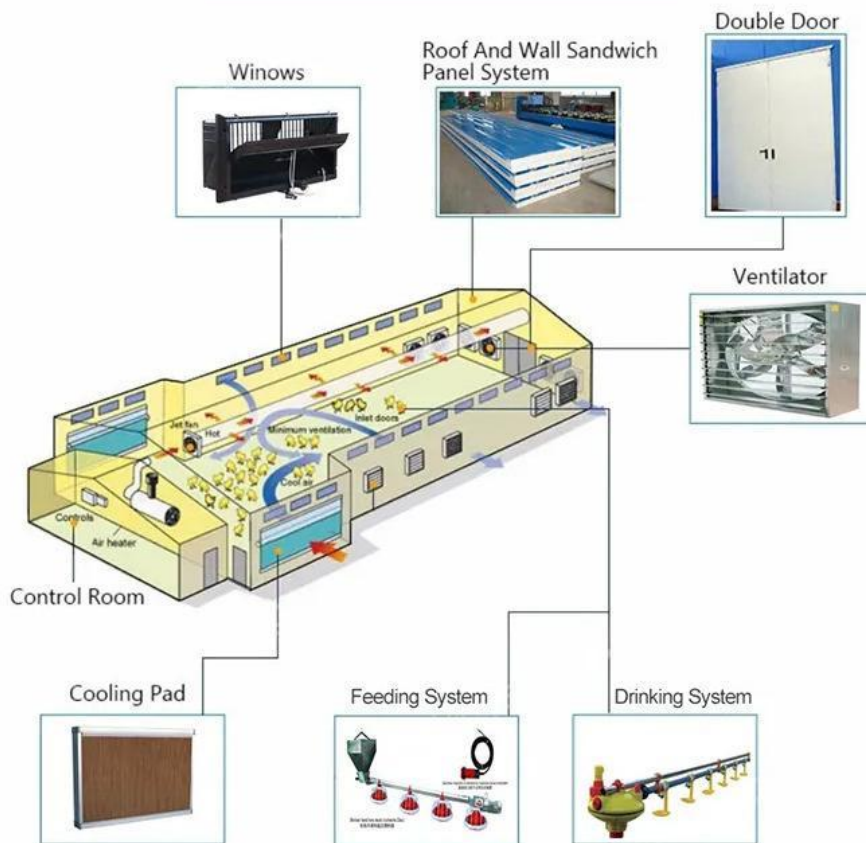
Lead time:  
17-31 days

Customized:  
packaging,  
pattern,  
LOGO



# Steel structure chicken house

Customized support







Customized support

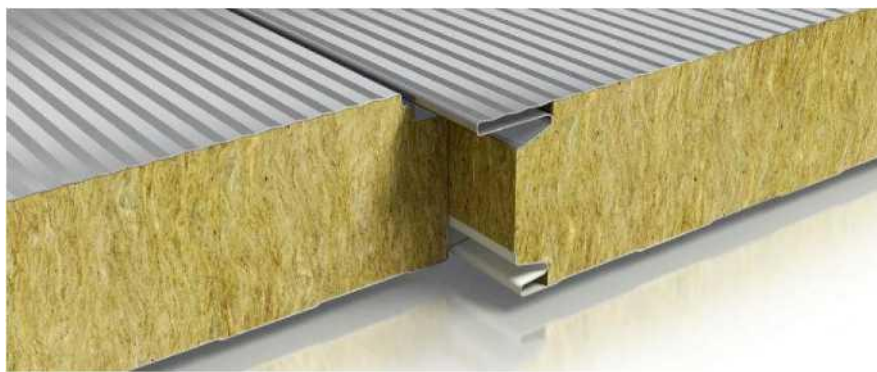
## Steel structure hangar

Price: US\$20.00-60.00 / Square Meter

Customized: Packaging, LOGO, patterns

Lead time: 17-31 days

# Rock wool sandwich panel



Rock wool sandwich panel is a kind of sandwich panel made of rock wool as raw material. Rock wool sandwich panel gives full play to the unique properties of rock wool core material, which has remarkable efficacy in fire prevention, heat insulation, sound absorption and sound isolation.



## Rock wool sandwich panel wall

Width: 950mm/1150mm

Sandwich thickness: 50mm/75mm/100mm/150mm/200mm

Density: 50-100 kg/m<sup>3</sup>

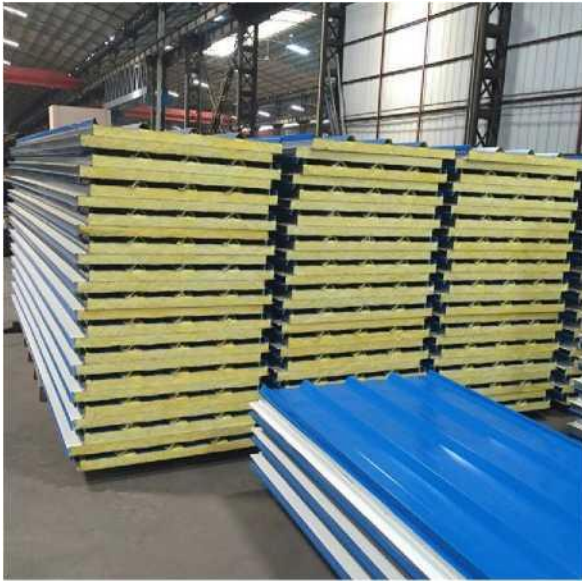
Metal sheet thickness: 0.3~0.6mm

Surface: Prepainted

Sheet color: Red Blue White/Custom or customize

Service: 25 years

# Rockwool sandwich panel



## Product Parameters

<b>Steel Outer Layer</b>	Common T(mm)	Outer Panel Specs 0.2-0.6(coated steel panel) Inner Panel Specs 0.2-0.6(coated steel panel)
	Common L(mm)	S12.000
	Common W(mm)	950-1,150
	Color	White, Blue, Red; OEM other color
	Coating	PVDF/SRP/HDP/PE
<b>Insulation Core</b>	Core Material	Rock Wool/ Glass Wool
	(High-quality thermal insulation)	PUR EPS
fireproof and water-repellent)	vw (kg/m <sup>3</sup> )	Rock Wool: >45 /Glass Wool:>64
	Thickness(mm)	PU: <40 50-200
	U/ R value(w/m-k)	Rock Wool: ^0.043/Glass Wool:^0.042
	Fire Rating	Rock Wool: Class B1, B2/Glass Wool: Class B
<b>Process</b>	Joint	Jock Wool; 2-sided joint-Male-Female Joint, PU
	Production Proce:	Continuous Production Process
	Surface Texture	at/ Embossed Pattern/ Micro Ripple / V8 Ripple
<b>Center Trim Treatment</b>		Metal Snap-in Cover Plate

## Rockwool sandwich roof panel

Width: 950mm/1150mm

Sandwichthickness: 50mm/75mm/100mm/150mm/200mm

Density: 50-100 kg/m<sup>3</sup>

Metal sheet thickness:0.3~0.6mm

Surface: Prepainted

Sheet color: Red Blue White/Customize

Service:25 years

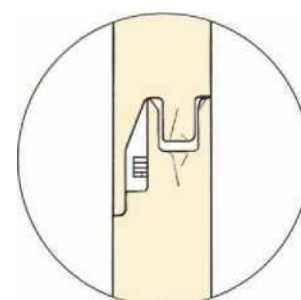
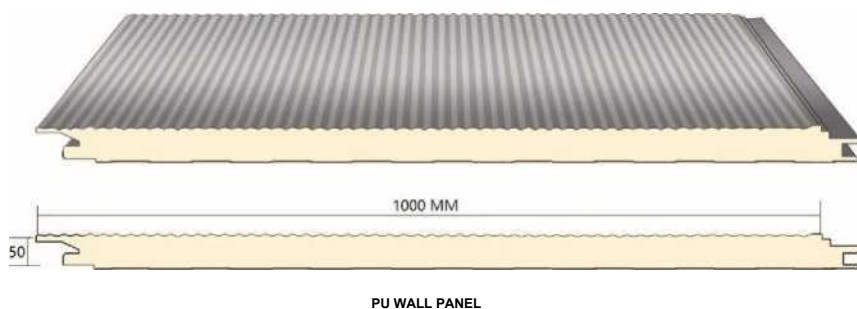
MOQ: 100 square meters

Customization: logo, packaging, pattern (500 square meters)

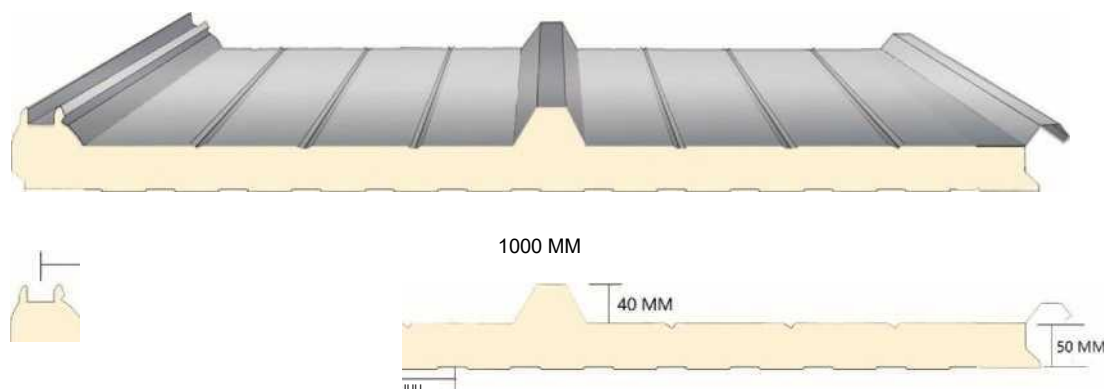
# PU sandwich panel



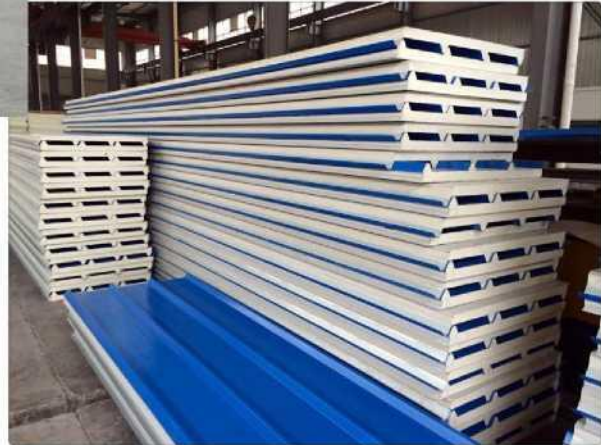
PU sandwich panel, the inner and outer sides are made of fiberglass steel, sandwich layer of rigid polyurethane foam, compounded by German vacuum technology at high pressure. It has excellent light retention.



Seamless Connection



# PU sandwich panel



Width: 950mm/1000mm/1150mm

Sandwich thickness: 50mm/75mm/100mm/150mm/200mm

Density: 40-100 kg/m<sup>3</sup>

Metal sheet thickness: 0.4~0.8mm

Surface: Prepainted

Sheet color: Red Blue White/Custom or customize

Thermal Conductivity: <0.023

Temperature range: -55~160°C

Service: 25 years

MOQ: 100 square meters

Customization: logo, packaging, pattern (500 square meters)

# EPS sandwich panel



EPS light-weight and heat-insulating color steel sandwich panel, with the outer layer of high-strength color steel plate and the inner layer of light-weight and heat-insulating material polystyrene foam, has the properties of lightest weight, high mechanical strength, heat insulation, sound insulation, corrosion resistance, water vapor penetration resistance and weather resistance. It is widely used in purification workshops, industrial plants, office buildings, gymnasiums, villas and other buildings.



## EPS sandwich wall panel

Width: 950mm/1150mm

Sandwich thickness: 50mm/75mm/100mm/150mm/200mm

Density: 50-100 kg/m<sup>3</sup>

Metal sheet thickness: 0.3~0.6 mm

Surface: Prepainted

Sheet color: Red Blue White/Custom er customize

Service: 25 years

# EPS sandwich panel



## EPS sandwich roof panel

Width: 950mm

Sandwich thickness: 50mm/75mm/100mm/150mm/200mm

Density: 50-100 kg/m<sup>3</sup>

Metal sheet thickness: 0.3-0.6mm

Surface: Prepainted

Sheet color: Red Blue White/Custom or customize

Service: 25 years

MOQ: 100 square meters

Customization: logo, packaging, pattern (500 square meters)



## C/Z-section steel

Customized support

Price: US\$714.23-\$844.08/tons

Customized : Packaging,LOGO,pattern

Lead time: 17-31 days





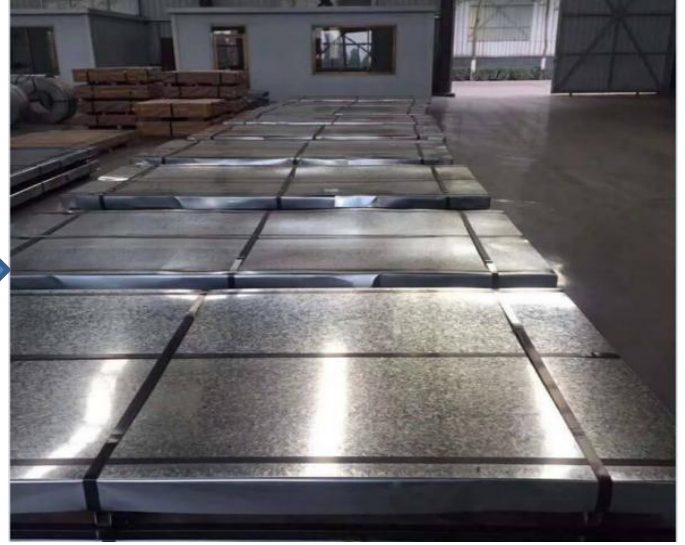
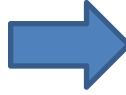
Customized support

## galvanized steel sheet

- Width: 750-1300mm
- Thickness: 0.3mm-0.6mm
- Length: customized

**Standard:**  
ASTM 1008/  
ASTM 1003,  
etc

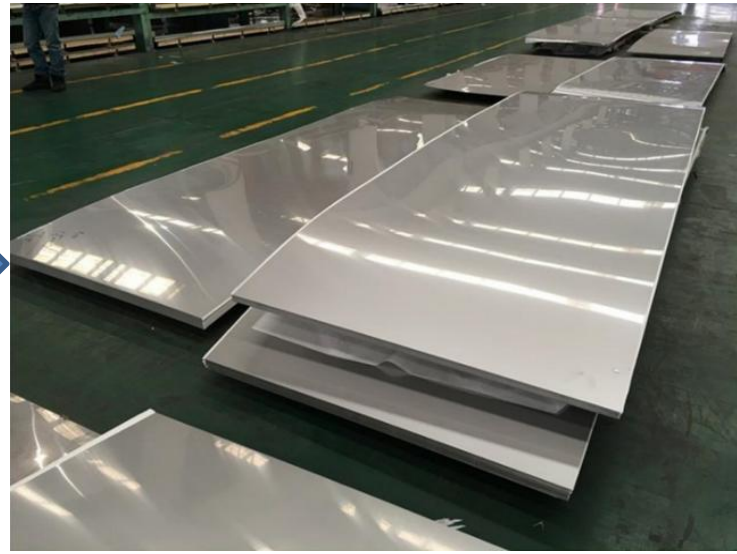
**Raw Material:**  
Q series, and  
galvanized:  
G60 etc



## Customized Support

# galvanized steel coil sheet

- **Material:** SGCC,DC51D,DX51D,DX52D,SGCD,Q195,Q235,SGHC,DX54D
- **Spangle pattern:** Big Spangle/Regular Spangle/Mini Spangle/Zero
- **Spangle Hardness:** Soft hard(HRB60),medium hard(HRB60-85),full hard(HRB85-95)
- **Flow Chart:** Winding → double unwinding → cutting head, cutting tail  
→welding → alkali washing → primary brushing → electrolytic cleaning  
→ secondary brushing → hotwater rinsing →hot air drying →inlet trap 、  
→continuous annealing → hot dip galvanizing (ceramic zinc pot)  
→ knifeblowing (introduction)→ post-plating air-cooled → water quenching  
→ leveling machine (reserved) → stretch straightening machine  
→ passivation treatment (reserved fingerprint resistance) → outlet trap  
→ roiling → shearing → coiling → unloading → weighing → packaging



## Customized Support

### Stainless steel coil plate

- **Grade:** 304/304L/321/316/316L/310S/904L/309S/316Ti/317L/310/310S
- **Surface:** 2B/HL/BA/NO.1/NO.4
- **Advantage:**

Our coils won't be easy to crack and bend because with the high quality hardness steel.

We can provide customer different surface like polishing, annealing, pickling, bright etc.

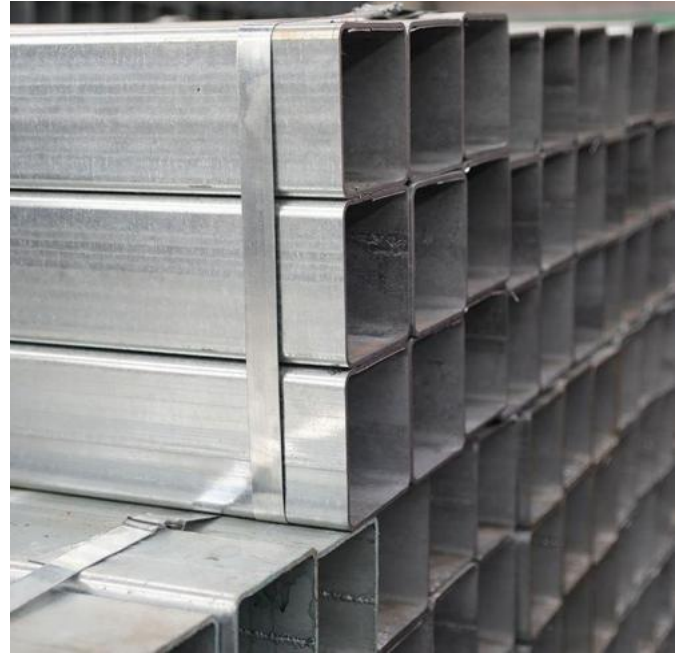
And wall thickness, outer diameter both can make as customers' request.

Our coils can widely used in petroleum, foodstuff, chemical industry, construction, electric power and etc.

## Galvanized Round Pipe



## Galvanized Square Pipe



### Customized Support

- **Steel Grade:** Q235,Q345,S235JR,S275JR,STK400,STK500,S355JR,GR.B-D
- **Standard:** BS1139-1775,EN1039,EN10219,JIS G3444:2004,GB/T3091-2001,BS1387-1985,DIN EN10025,ASTM A53 SCH40/80/STD,BS-EN10255-2004
- **Zn coating thickness:** 30-650 g/m<sup>2</sup>



Customized support

## Galvanized welded wire mesh

- Width: 0.5-1.8m
- Wire Diameter: 0.4-6mm
- Aperture: 1/4"-5"
- Length: 30m

Price:  
\$\$6-27/rolls

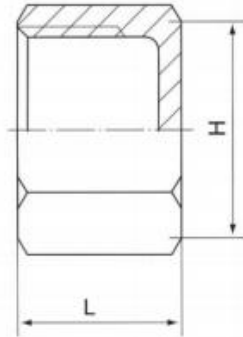
Lead time:  
15-21 days

Customized:  
packaging,  
Grphic

# Steel cap / socket / Banded

## Hex Cap

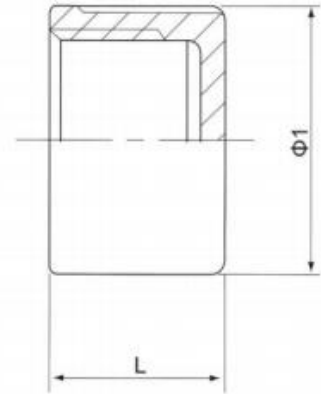
SX-013



Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	Φ1	15	18	21	27	30	38	50	55	70	92	109	132
	H	13	17	19	20	24	25	28	28	34	40	45	50

## Round Cap

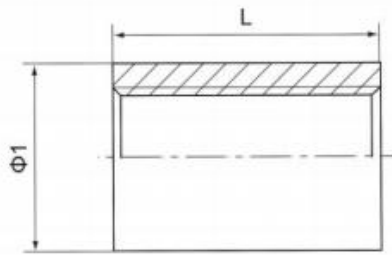
SX-014



Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	Φ1	15	18	21	27	30	38	50	55	70	92	109	132
	L	13	17	19	20	24	25	28	28	34	40	45	50

## Socket O.D. Machined

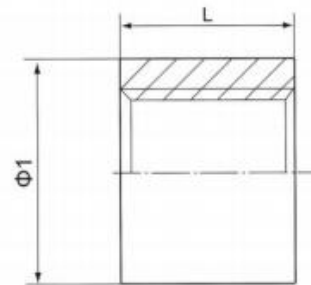
SX-015



Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	Φ1	15	18.5	21.3	26.4	31.8	39.5	49.3	55.5	69	87	103	126
	L	15	25	26	34	36	43	48	48	56	65	71	83

## Half Socket

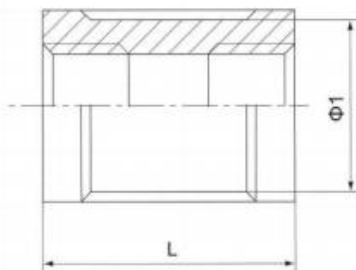
SX-016



Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	Φ1	15	18.5	21.3	26.4	31.8	39.5	49.3	55.5	69	87	103	126
	L	6.5	15	16.5	18	20.5	23.5	26.5	26.5	29.5	31	34.5	38

## Socket Banded

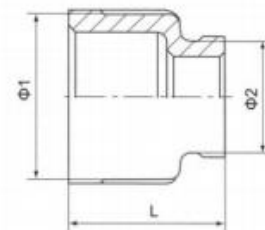
SX-017



Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	Φ1	15	18.5	21.3	26.4	31.8	39.5	49.3	55.5	69	87	103	126
	L	15	25	26	34	36	43	48	48	56	65	71	83

## Reducing Socket Banded

SX-018

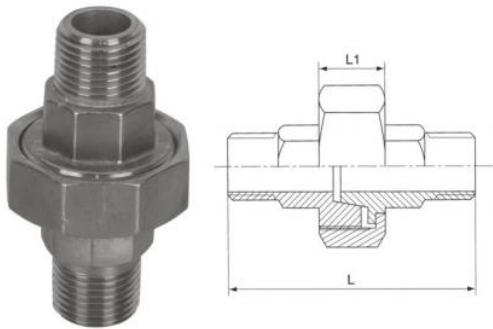


Standard	Size	1/4		1/2		3/4		1		1-1/4	
		1/8	1/4	1/4	3/8	3/8	1/2	1/2	3/4	3/4	1
EN-10241	Φ1	21.5	26	29	29	36.7	36.7	43	43	52.5	52.5
	Φ2	15.2	21.5	21.5	26	26	29	29	36.7	36.7	43
	L	26	29	34	34	37	37	42	42	52	52
Standard	Size	1-1/2		2		2-1/2		3		4	
		1	1-1/4	1-1/4	1-1/2	1-1/2	2	2	2-1/2	2-1/2	3
EN-10241	Φ1	59	59	72	72	87	87	100	100	126	126
	Φ2	43	52.5	52.5	59	59	72	72	87	87	100
	L	53	53	57	57	68	68	76	76	89	89



# Stainless steel units

SX-031



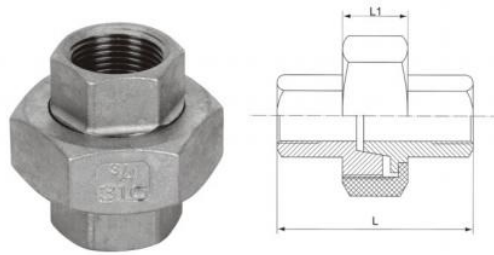
Union Conical M/M

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	L1	13.5	13.5	15.5	17	19	20.5	23	26	28.5	28.5	30	34
	L	51	62.5	62	72	83.6	88.6	107	107.6	119	146.6	166	200.6

Union Teflon Flat M/M

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	L1	13.5	13.5	15.5	17	19	20.5	23	26	28.5	28.5	30	34
	L	51	62.5	62	72	83.6	88.6	107	107.6	119	146.6	166	200.6

SX-032



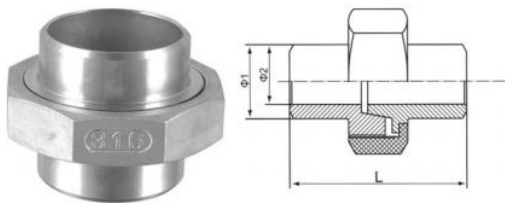
Union Conical F/F

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	L1	13.5	13.5	15.5	17	19	20.5	23	26	28.5	28.5	30	34
	L	29	37.5	38	42	50.4	48	59	65	69	80	88	108

Union Teflon Flat F/F

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	L1	13.5	13.5	15.5	17	19	20.5	23	26	28.5	28.5	30	34
	L	29	37.5	38	42	50.4	48	59	65	69	80	88	108

SX-033



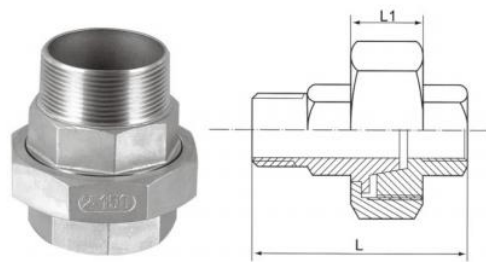
Union Conical BW/BW

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	Ø1	10.2	13.5	17.2	21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3
	Ø2	6.2	8.8	12.5	16	21.6	27.2	35.9	41.8	53	68.8	80.8	105.3
	L	26	35.5	38	42	50.4	48	59	64	69	75	84	99

Union Teflon Flat BW/BW

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	Ø1	10.2	13.5	17.2	21.3	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3
	Ø2	6.2	8.8	12.5	16	21.6	27.2	35.9	41.8	53	68.8	80.8	105.3
	L	26	35.5	38	42	50.4	48	59	64	69	75	84	99

SX-034



Union Conical M/F

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	L1	13.5	13.5	15.5	17	19	20.5	23	26	28.5	28.5	30	34
	L	40	50	50	57	67	68.3	83	86.3	94	113.3	127	154

Union Teflon Flat M/F

Standard	Size	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
EN-10241	L1	13.5	13.5	15.5	17	19	20.5	23	26	28.5	28.5	30	34
	L	40	50	50	57	67	68.3	83	86.3	94	113.3	127	154

Reducing Adapter Coupling With Male Thread



SX-035

Equal Adapter Coupling With Male Thread



SX-036

Adapter Coupling With Female Thread



SX-037

90° Adapter With Female Thread



SX-041

90° Adapter With Male Thread



SX-042

90° Welding Adapter With Male Thread



SX-043

Weld Core



SX-038

Nipple M/F



SX-039

Switch Pipe Nipple



SX-040

Reducing Nipple M/M



SX-044

Nipple M/F



SX-045

Attacco Valvole



SX-046

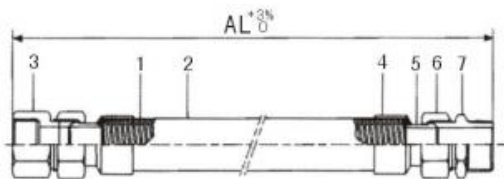


# Metal Hose

## Braided Corrugated Metal Hose – S225 SX-107



**Metal to metal sealing**  
**Applicable for various range of pressure and temperature**  
**Mon.Dia.: 8A~65A**  
**Length: 300mm~5000mm**  
**Material of fitting: carbon steel stainless steel**



1软管 2软网 3螺纹接头 4压网环 5焊芯 6内接头 7外接头

DN(A)		8	10	15	20	25	32	40	50	65
Specification of taper screw thread	outer screw thread	R1/4	R3/8	R1/2	R3/4	R1	R1 1/4	R1 1/2	R2	R2 1/2
	inner screw thread	Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1	Rc1 1/4	Rc1 1/2	Rc2	Rc2 1/2
Length of pipe joint		47	51	58	63	68	80	80	99	123
Bellows type		HS, HA, HB, HO, OH(Reference: ) OS, OA, OB, OP(The welding method of products above 50A various from what is shown in the figure)								

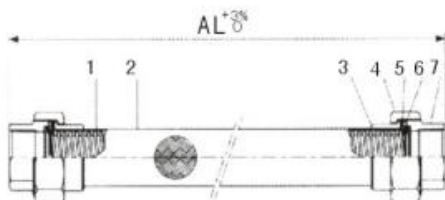
## Braided Corrugated Metal Hose - S220 SX-108



**Welded Union Type**  
**ISO standard thread connection**  
**Widely applicable for absorbing vibration and movement**

**Mon.Dia.: 8A~65A Length: above 300mm**  
**Specification of connectors: ISO Standard thread**  
**Max. Temperature: 350 degree centigrade**  
**Working Pressure: above 1.0 MPa**

**Material:**  
**Hose: SUS304/SUS316L**  
**Braid: SUS304**  
**Unions: carbon steel(tin-plated)/ stainless steel**  
**Corrosion resistant Underground type can be made.**



1软管 2软网 3护套 4内接头 5焊环 6密封垫 7外接头

### Offset

DN(A)	8	10	15	20	25	32	40	50	65
300L	25	25	25	20	10	10	5	5	-
500L	50	50	50	50	45	45	45	35	25
1000L	115	115	115	115	105	105	105	100	100

## Customized Fittings

Pump Body



SX-047

Impeller



SX-048

Pump Cover



SX-049

Union



SX-050

Union



SX-051



SX-052

Female Nipple



SX-053

90° Welding Elbow With Female Thread



SX-054

90° Elbow With Base



SX-055

Floor Drain



SX-056

Floor Drain



SX-057

45° Socket



SX-058

## Customized Fittings

**Codolo**



SX-059

**Themometer Connection**



SX-060

**Female Nipple**



SX-061

**Hex Nut**



SX-062

**Hex Nut**



SX-063

**Tee**



SX-064

**Welding Hose Nipple**



SX-065

**Bite Type Nipple M/F**



SX-066

**Union**



SX-067

**Male Nipple**



SX-068

**Union Male Nipple**



SX-069

**Hex Solid Plug**



SX-070

**Manifold**



SX-071

**Manifold**



SX-072

## Specification of Welded Wire Mesh

Opening		Wire Diameter	Width 0.4-2M	Length 5-50m	electric galvanized before welded, electric galvanized after welded, hot-dipped galvanized before welded' hot-dipped galvanized after welded, PVC coated, Stainless steel wire
In inch	In metric unit				
1/4" x 1/4"	6.4 x 6.4mm	BWG24-22			
3/8"x 3/8"	10.6x 10.6mm	BWG22-19			
1/2"x 1/2"	12.7 x 12.7mm	BWG23-16			
5/8" x 5/8"	16x 16mm	BWG21-18			
3/4" x 3/4"	19.1 x 19.1mm	BWG21-16			
1" x 1/2"	25.4x 12.7mm	BWG21-16			
1-1/2" x 1-1/2'	38 x 38mm	BWG19-14			
1" x 2"	25.4 x 50.8mm	BWG16-14			
2" x 2"	50.8 x 50.8mm	BWG15-12			
2" x 4"	50.8 x 101.6mm	BWG15-12			
4" x 4"	101.6 x 101.6mm	BWG15-12			
4" x 6"	101.6 x 152.4mm	BWG15-12			
6" x 6"	152.4 x 152.4mm	BWG15-12			
6" x 8"	152.4 x 203.2mm	BWG14-12			

Note: Special specifications can be made according to customers requires.

### Customized support

The finished welded wire mesh offer flat and uniform surface, firm structure, good integrity. The welded wire mesh are the most excellent anti-corrosion resistance among all the steel wire mesh products, it is also the most versatile wire mesh due to its wide application in different fields. The welded wire mesh can be galvanized, PVC coated, or stainless steel welded wire mesh.

### DETAIL



Electric galvanized after welded

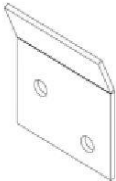


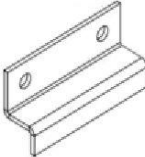

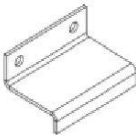

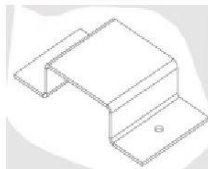


PVC coated



Hot dipped galvanized after welded

# Customized Bending or stamping parts based on the model tooling--like Omegas projects

Item#	Pictures
MCH1995 rev05	
MCH1996 rev05	
MCH1997 rev05	
MCH2001 rev07	
MCH2002 rev05	
MCH2003 rev08	
MCH2011 rev05	
MCH2013 rev06	





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**Betterway LLC**

Info@betterwaylife.com

2549 San Leandro Blvd,

San Leandro, CA 94578