

Post Railing Systems Typical Product Catalogue







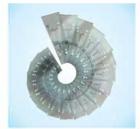
Content

K	di.	41
	7	7
į.	-	
	٠٠٠٠	Jil
1	4	









Balustrade Pillar Series	06
Single-plate Pillar	07
Double-plate Pillar —	15
Circular Tube Pillar	23
Square Tube Pillar	27
Rectangular Tube Pillar	29
Flagnole Pillar	31
Lighting Pillar	33
Installation Instructions	35
Pillar Fitting Series —	39
Point-supported Balustrade Brac	ket 41
Fin-supported Balustrade Bracke	t 45
Glass Clamp	50
Glass Support Series	54
Glass Partition Support Fitting	55
Aluminum Alloy U Groove	
Glass Connector	63
Handrail Fitting Series	64
Handrail Supporting Connected to	
Handrail Supporting Connected to	
End Cap	
Connector	
Elbow	
Base Plate	
Cover Plate	75
Micro Cable Accessories	
Assembled Staircase	
Canopy Beam	89
Metro Products	
Sheet Metal Products Common Used Pipe Specification	
Common Osed Pipe Specification Common Fasteners Matching Tab	
Typical Projects	
	0 1

Introduction for Product Material

- Selection of Stainless Steel Material

The followings are primary material properties

- Stainless steel hot-rolled sheet is mainly made of material 316L、304 which conform to standard ASTM A666;
- Stainless steel cold rolled sheet is mainly made of material 316L、304 which conform to standard ASTM A240/240M;
- Stainless steel decoration tube is mainly made of material 316L, 304 which conform to standard ASTM A240/240M, ASTM A 269;
- Stainless steel industrial tube(or seamless tube is mainly made of material TP316L、304 which conform to standard ASTM A269;
- Stainless steel rod is mainly made of material 316, 304 which conform to standard ASTM A276;
- Casted stainless steel is mainly made of material CF8M、CF8 which conform to standard ASTM A743/A743M;

Note: Please note the requirement of material when you place the order.

二、The Chemical Composition of Stainless Steel

UNS	Chemical Composition %									
	C	Mn ≤	P ≼	S ≼	Si ≤	Cr	Ni	Мо	N	Other Element
304	0.08	2.00	0.045	0.030	1.00	18.00 ~ 20.00	8.00 ~ 11.00	_	_	_
316	0.08	2.00	0.045	0.030	1.00	16.00 ~ 18.00	10.00 ~ 14.00	2.00 ~ 3.00	_	_
316L	0.03	2.00	0.045	0.030	1.00	16.00 ~ 18.00	10.00 ~ 14.00	2.00 ~ 3.00	_	_
TP316L	0.035	2.00	0.045	0.030	1.00	16.00 ~ 18.00	10.00 ~ 15.00	2.00 ~ 3.00	0.10~ 0.16	_
CF8	0.08	1.50	0.04	0.04	2.00	18.00 ~ 21.00	8.00 ~ 11.00	_	_	_
CF8M	0.08	1.50	0.04	0.04	2.00	18.00 ~ 21.00	9.00 ~ 12.00	2.00 ~ 3.00	_	_

STAINLESS STEEL MAINTENANCE ELUCIDATION

I Matters Need Attention When Storing and Installing

- ① Goods should be avoided being scratched and bruised when unloading;
- ② Goods should be stored in dry and ventilated place, and avoid being caught in the rain, being struck, or being corroded by corrosive medium;
- ③ Measures need to be taken to protect the surface of pillars and their accessories from being contaminated by cement mortar and dust. Pack the products with paper or cloth that can resist water and dust. Acidic or alkaline liquid is forbidden to contact with the goods;
- 4 Fix pillars onto ground with expansion bolt or through welding on embedded parts, and fix pillar accessories onto pillars with rivet or screws, or through welding on the pillars.
- ⑤ Insure there is no mounting pads and gaskets been neglected.
- 6 Coat expansion bolts with anaerobe in advance when screw nuts in case they get loosened;
- This insure pillars are perpendicular to the ground when install them;
- ® Add gaskets or cushion block between glass and hardware in case they contact directly.
- Stainless steel products should be cleaned and maintained regularly, as they will get rusted in terrible environment.

I Some usual contaminants of stainless steel and cleaning method

- ① Soap and some other weak detergents could be used for dusts and other contaminants which could be eliminated easily;
- ② Brand paper and pad pasting could be washed away with warm water and weak detergents, and ethyl alcohol and organic solvent such as diethyl ether and benzene could be used to eliminate binder.
- ③ Grease, oil and lubricating oil sticking onto surface of stainless steel could be eliminated by wiping up with soft cloth, and then cleaning up with neutral detergent, ammonia solution or special purpose detergent.
- 4 If there are decolorizer and other acid liquid stick onto surface, wash up immediately with water, and then with ammonia solution or neutral soda liquid, and at last with neutral detergent or warm water.
- ⑤ Rainbow-like stripes emerged on surface of stainless still are caused by excessive use of detergent or oil, and they could be washed up by warm water.
- 6 Rust caused by contaminants could be washed up with liquid contains 10% of nitric acid or with

special detergent.

- Cement and mortar splashed onto stainless steel should be washed away before they get solidified, or it will be difficult to eliminate them with stainless steel intact.
- ® Contaminants such as scum caused by using of tools, dusts produced by using of abrasive cut-off wheel, splashed slag created when oxyacetylene flaming, and carbon steel contaminant caused by long-time-contact with carbon steel, could be eliminated with special glue or liquid contains 10% of phosphoric acid, then ammonium hydroxide, and at last cold water; or with oxalic acid wets stainless steel for 15 minutes, then wash up with cold water, and dry at last.

Ⅲ Matters Need Attention in Daily Maintenance

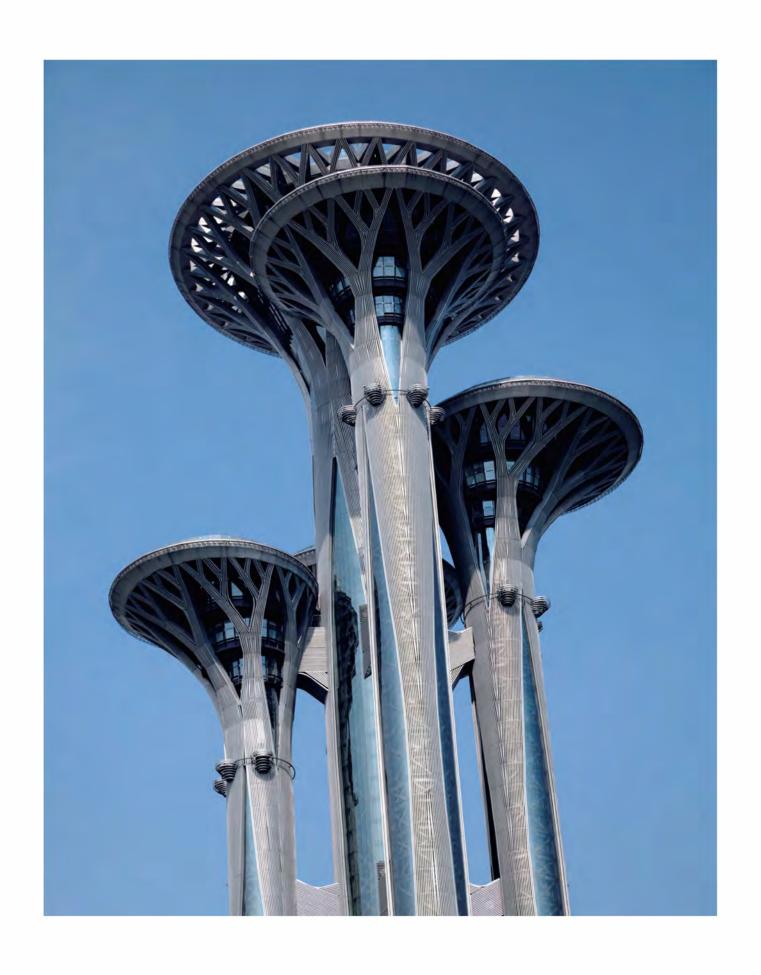
- ① Wipe surface of stainless steel, especially mirror-finished stainless steel, with soft cloth to avoid damaging products. Wipe along the grain on the surface when it comes to drawbench-surface
- ② It should be avoided to use scrubbing solution with bleaching composition, steel-wire-ball or lapping tool to wash up stainless steel. Do not forget to clean up with water after washing up.
- ③ Be clear of regulations about disposition of chemical agent and regulations about environmental protection and health. Regulations about emissions of sewage and acid liquid, and disposition of plastic film should be specially noted.

IV Maintenance Period

Stainless steel products should be cleaned once to twice one year. Different maintenance period could be adopted according to local environment the products applied.

Environment				Industrial District		Coastal District	
Location	Structure	Villages And Towns (Times per Year)	City (Times per Year)	General Environment (Times per Year)	Corrosion Environment (Times per Year)	General Environment (Times per Year)	Corrosion Environment (Times per Year)
Out-Door	without Contaminants Accumulated	1~2	1~2	2~3	3~4	2~3	3 ~ 4
	with Contaminants Accumulated	2~3	3~4	3 ~ 4	4~5	3~4	4~5
In-Door	without Contaminants Accumulated	1~2	2~3	3 ~ 4	4~5	3~4	4~5
	with Contaminants Accumulated	2~3	4~5	4~5	5~6	4~5	5~6

03/04



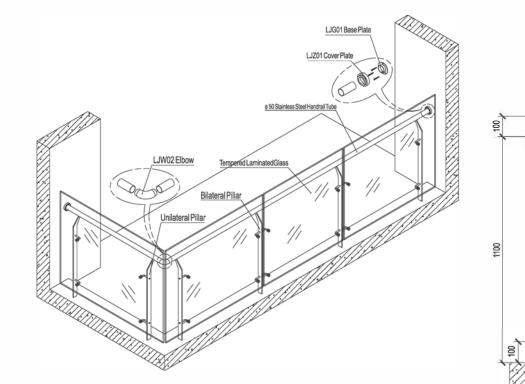


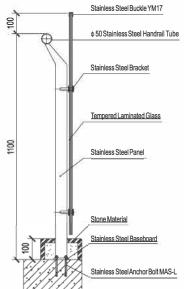
Product Features:

- 1. Adopt ASTM standard stainless steel material with good mechanical properties and corrosion resistance.
- 2. With high safety performance, simple design, strong permeability, overall beautiful and generous characteristics, it is the mainstream trend in the market.

Single-plate Pillar: HLBD2AB





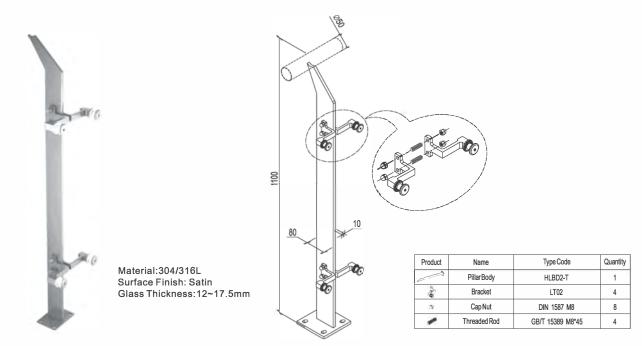




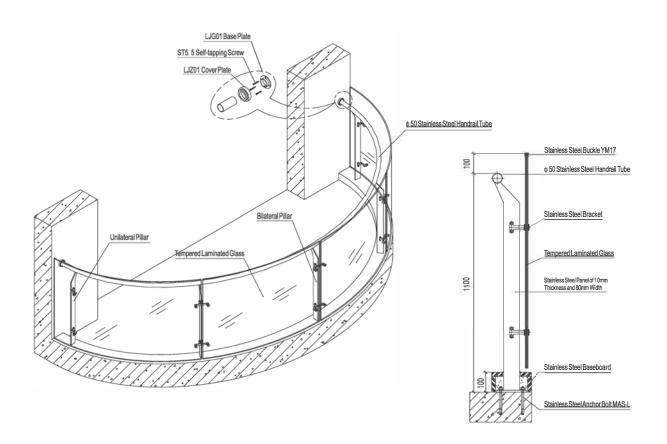




Single-plate Pillar: HLBD2



Bilateral Pillar: HLBD2-LT02M Unilateral Pillar: HLBD2-LT02



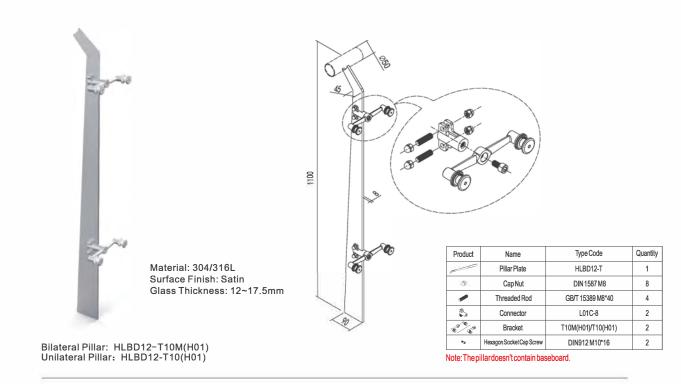


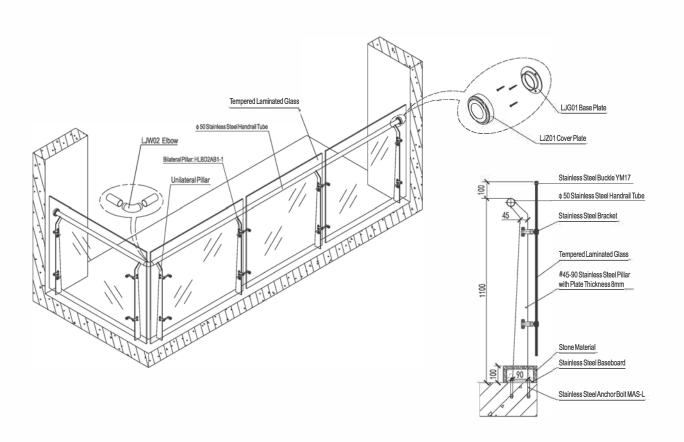






Single-plate Pillar: HLBD12









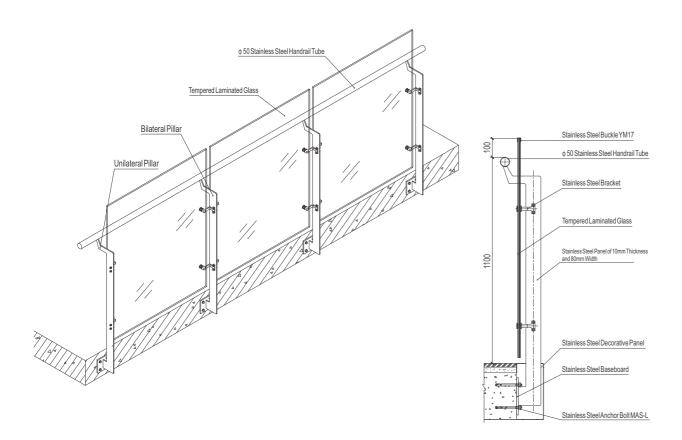






Single-plate Pillar: HLBD13





Single-plate Pillar: HLGD1



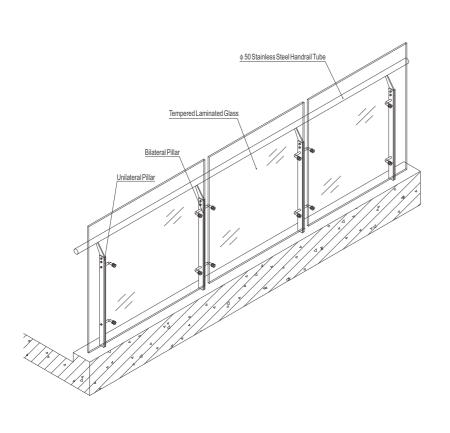


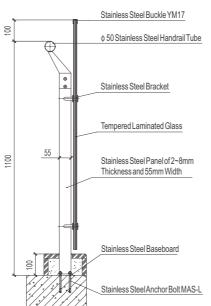






Bilateral Pillar: HLBS15-M Unilateral Pillar: HLBS15-L/HLBS15-R



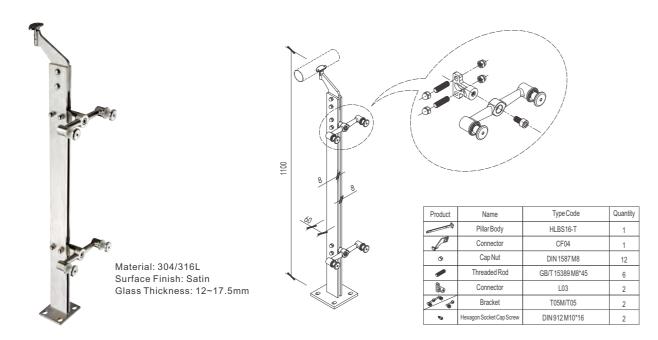




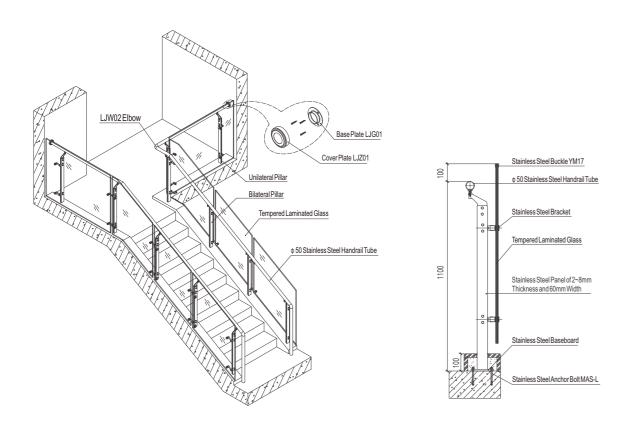






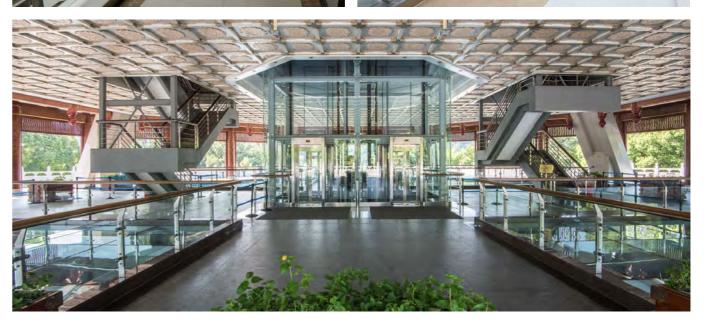


Bilateral Pillar: HLBS16-T05M Unilateral Pillar: HLBS16-T05





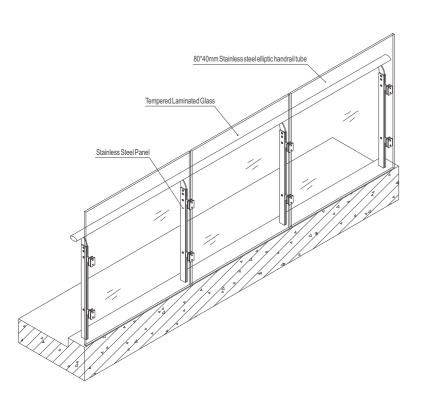


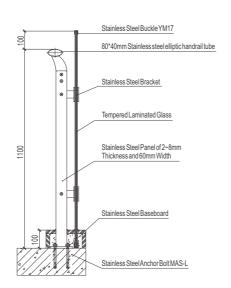








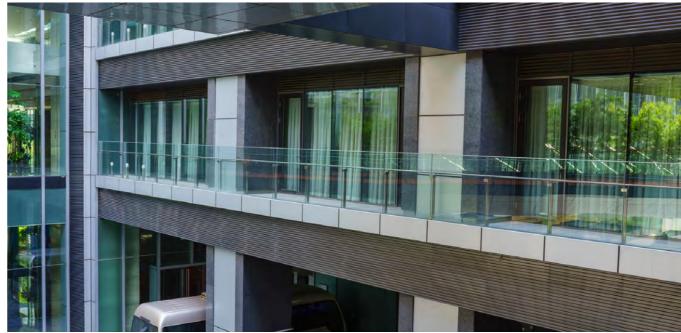








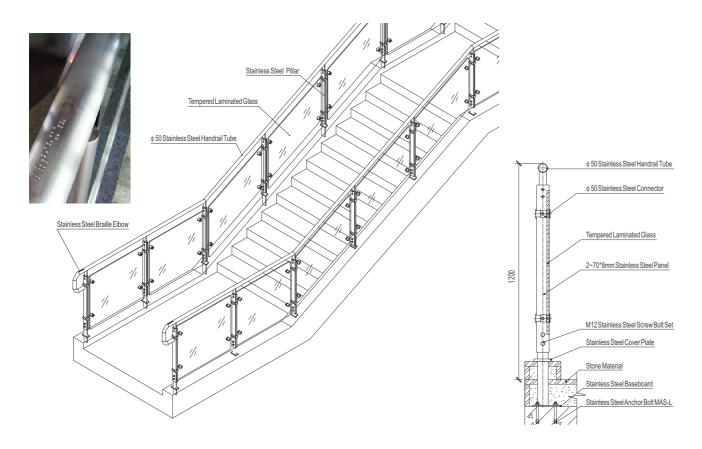


















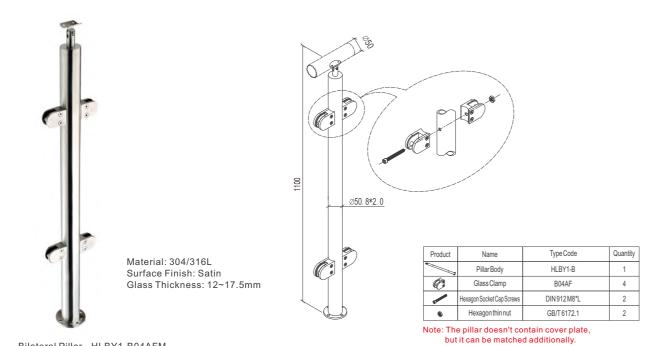


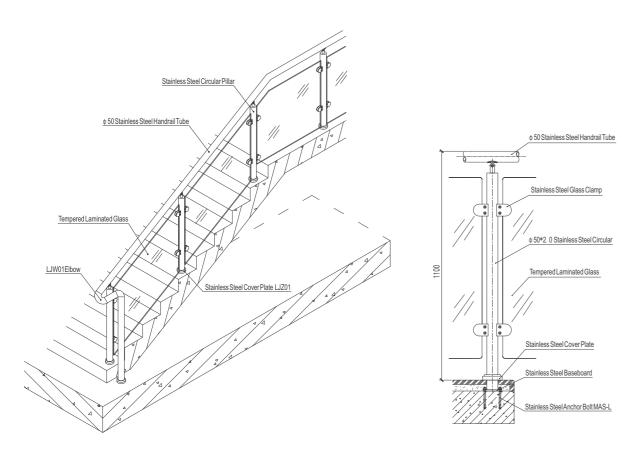




Circular Tube Pillar: HLBY1

Bilateral Pillar: HLBY1-B04AFM Unilateral Pillar:HLBY1-B04AF



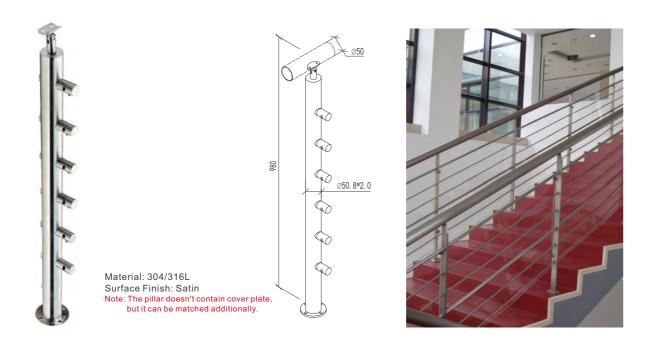


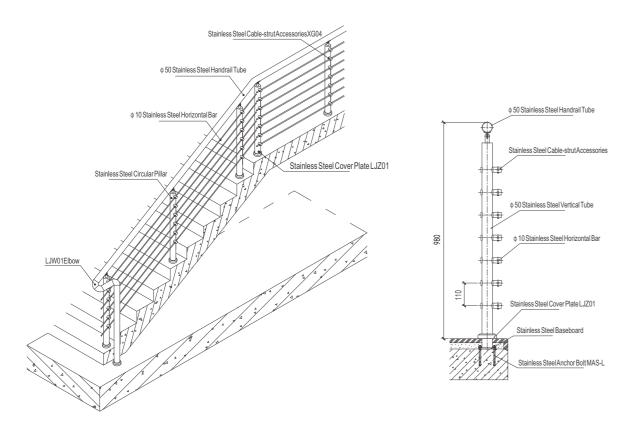






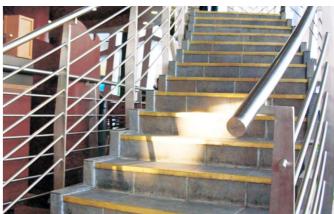
Circular Tube Pillar: HLGY1



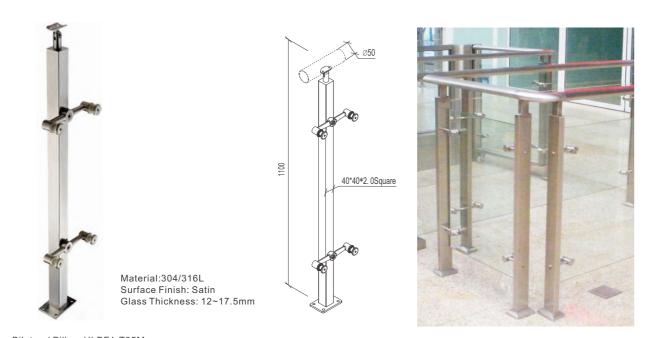


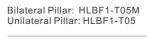


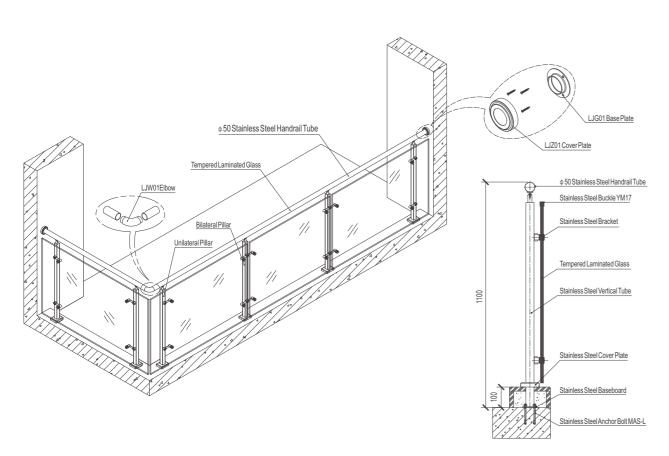




Square Tube Pillar: HLBF1











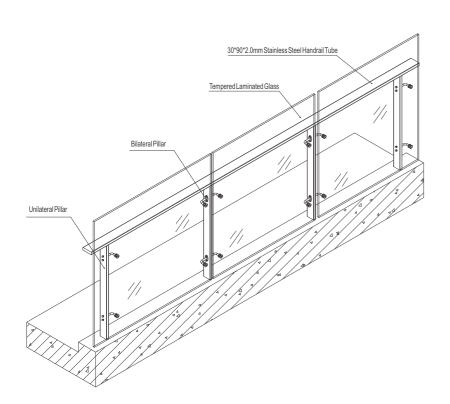


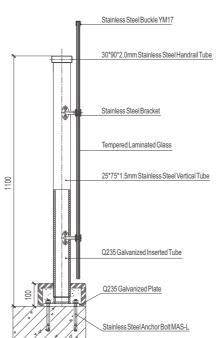




Rectangular Tube Pillar: HLBJ5







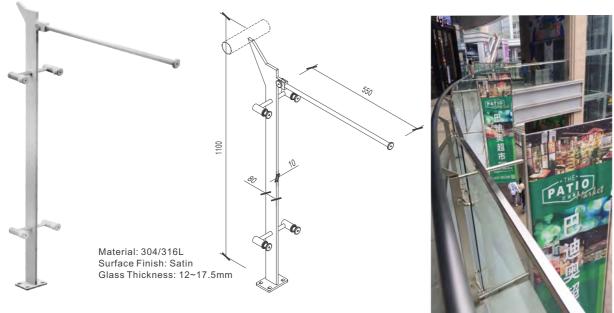








Flagpole Balustrade Pillar: HLQB1



Product Features:
Flagpole staircase pillar is commonly used in the place like shopping mall, atrium, etc; .The post railing fits together perfectly with flagpole which makes the appearance simple and generous. It is convenient to change AD flag.

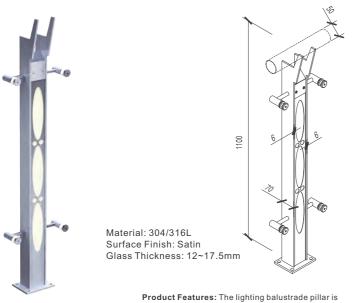




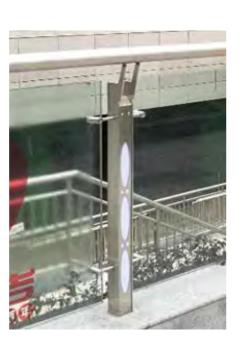




Lighting Pillar: HLMD2













Installation of Post Railing on Ground

Step 1

Step 1 :Setting-out Route and Drilling Hole

I. Fixation of Expansion Bolt

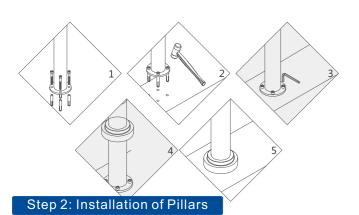
- a.Install on the floor
- b.Install on the structure panel

Flat the installation surface and then inspect the flatness with levelling instrument. Embedded parts should be installed in advance before installation, and then set out route and drill holes according to drawings. Setting out route should be aligned with drilling of holes, and the width between two pillar-center should not exceed 1200mm

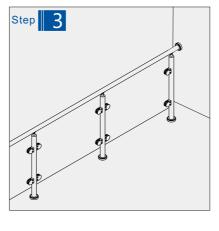


II. Welding of Embedded Parts

According to drawing, the embedded parts should be installed when pouring concrete structure, and the embedded parts should be horizontally installed, besides, the width between two pillar-center should not exceed 1200mm.



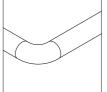
- I . Fixation of Expansion Bolt
- a. Flat the installation surface
- b. Cleaning up slag in the holes after drilling
- c. Align the hole in the bottom of pillar with the hole predrilled, insert expansion bolt and strike in, so the pillar could be stick to the ground
- d. Screw up the bolt so as to fix the pillar
- a. Stretch wire straightly so as to determine the installation sites of pillar
- b. Add steel discs if the embedded parts are not horizontally installed, but this step is not necessary if the pillar is not adjustable
- c. The material of electrode should be the same as the one of pillar when welding

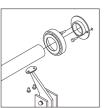


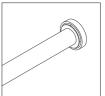
Step 3: Installation of Handrail

- a. Measure the needed length of handrail ,and determine the fitting needed.
- b. Drill holes to screw in bolt, and fix handrail on the wall.
- c. Sleeve cover plate around the handrail, and sleeve the handrail around the base plate, then place the handrail onto the handrail supporter, adapt the handrail to supporter, and then connect them through welding or with bolt.
- d. Weld handrails with elbow at turning, and welding is adopted when connecting two pieces of handrail.
- e. Polish welded joints after welding.









Step 4 :Glass Installation

- a. Dispatch the upper clamp on the pillar and take the dowel out.
- b. Place glass into bottom clamp and insert dowel the hole in glass and the hole in clamp coincident.
- c. Resume the upper clamp and insert dowel.



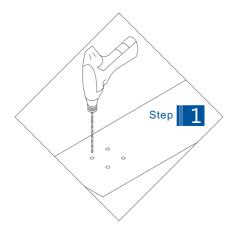
Step 5:Cleaning

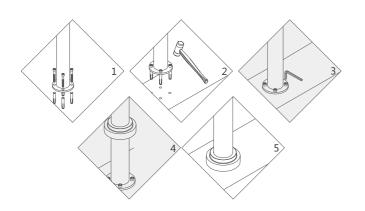
Wrap the post railing after cleaning until the construction work completes so as to avoid damages to it when constructing.

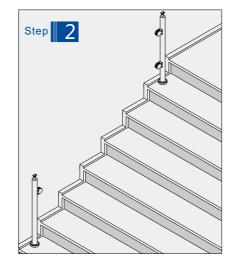
Installation of Post Railing on Staircase

Step 1 :Setting-out Route and Drilling Hole

- 1. Level installation surface on each step.
- 2. Cleaning up slag in the holes after drilling;
- 3. Align the hole in the bottom of pillar with the hole predrilled, insert expansion bolt and strike in, so the pillar could be stick to the ground.
- 4. Screw up the bolt so as to fix the pillar.







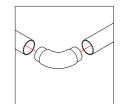
Step 2: Installation of Pillars

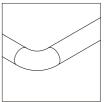
- I . Fixation of Expansion Bolt
- a. Flat the installation surface
- b. Cleaning up slag in the holes after drilling
- c. Align the hole in the bottom of pillar with the hole predrilled, insert expansion bolt and strike in, so the pillar could be stick to the ground.
- d. Screw up the bolt so as to fix the pillar.
- II. Welding of Embedded Parts
- a. Stretch wire straightly so as to determine the installation sites of pillar.
- b. Add steel discs if the embedded parts are not horizontally installed, but this step is not necessary if the pillar is not adjustable
- c. The material of electrode should be the same as the one of pillar when welding.

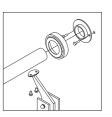


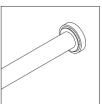
Step 3: Installation of Handrail

- a. Measure the needed length of handrail, and determine the fitting needed.
- b. Fix handrail onto pillar through welding or with screws, and then fix handrail and pillars on both sides.
- c.Connect handrails of each stair.











Step 4 : Middle Pillars Installation

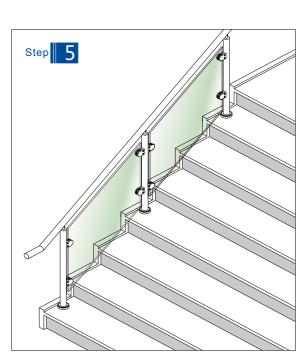
- a.Determine the installation sites of middle pillars by closing the pillars on handrails, and mark on the determined sites.
- b.Drill holes and fix pillars, then connect handrails.

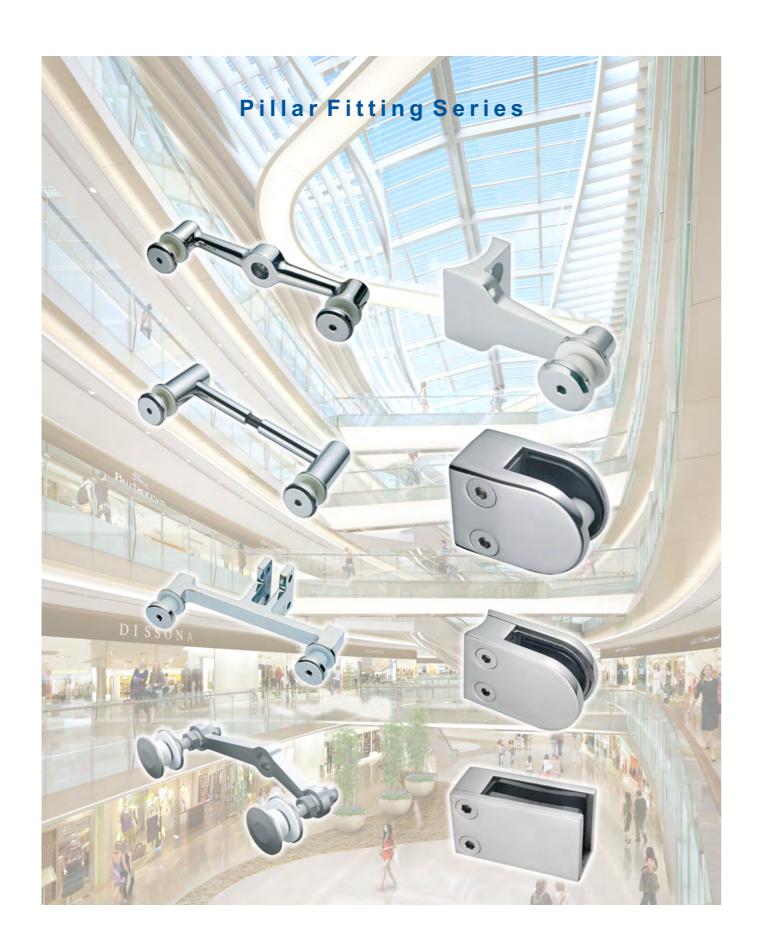
Step 5 :Glass Installation

- a.Determine the dimension of glass.
- b.Glass installation.

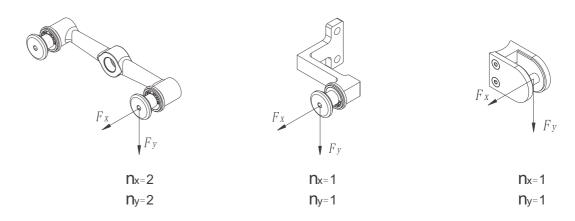
Step 6:Cleaning

Wrap the post railing after cleaning until the construction work completes so as to avoid damages to it when constructing.





Calculation of axial and radial load for model selection



1. The weight of the glass panel

 $G_k=B*H*T* \rho *g$

- $G_{\mbox{\tiny k}}\mbox{-}$ The weight of glass panel (N) ;
- B The width of the glass (mm);
- $\mbox{H-The height of the glass (mm)}\ ;$
- ${\sf T}$ The valid thickness of the glass (mm) $\ ;$
- ρ The density of glass (2.56*10⁻⁶ kg/mm³);
- g Acceleration of gravity (10 N/Kg);

2, Axial Force

 $F_x = q^*B^*H/n_x$

- F_x The axial force for a single point (N);
- q Surface uniform load design value, mainly refers to the wind load (N/m²);
- B The width of the glass (mm);
- H-The height of the glass (mm);
- n_x The quantity of bearing capacity points on x direction, see the above picture for details.

3, Radial Force

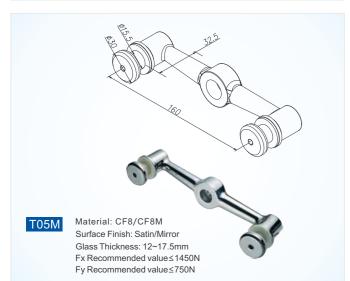
 $F_{v} = 1.2G_{k}/n_{v}$

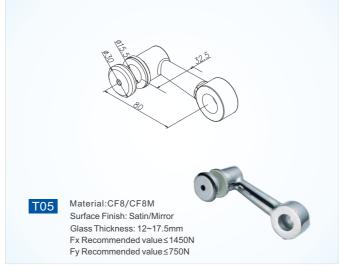
- F_v The radial force for a single point (N);
- G_k The weight of glass panel (N);
- n_v- The quantity of bearing capacity points on y direction, see the above picture for details

Point-supported Balustrade Bracket





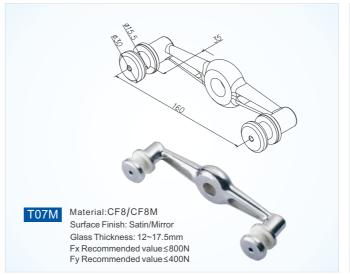




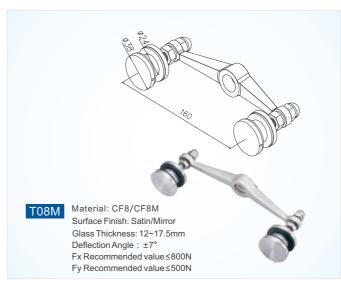




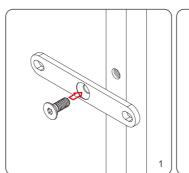
Point-supported Balustrade Bracket

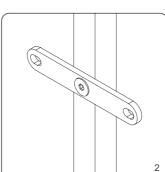


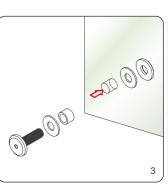


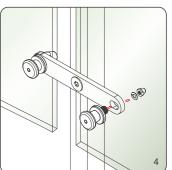








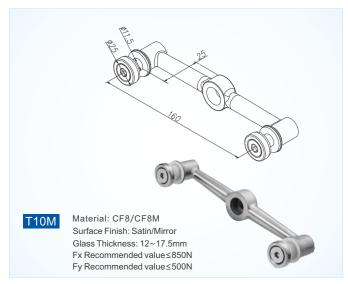




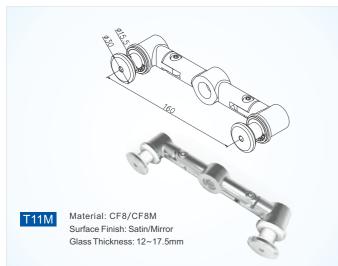
Point-supported Balustrade Bracket

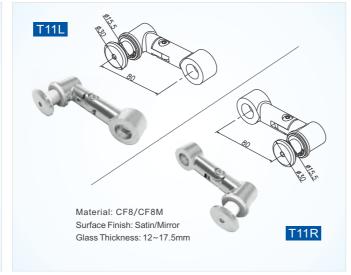












Point-supported Balustrade Bracket



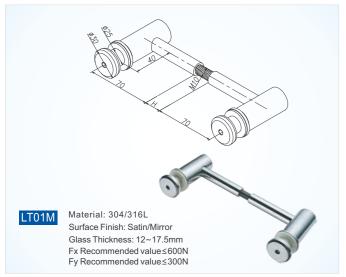








Fin-supported Balustrade Bracket

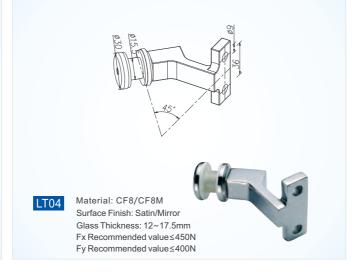




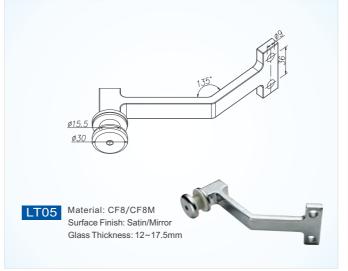


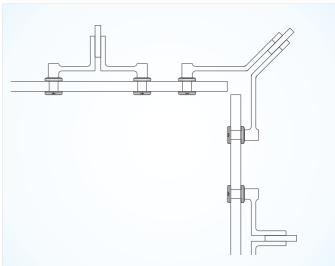






Fin-supported Balustrade Bracket









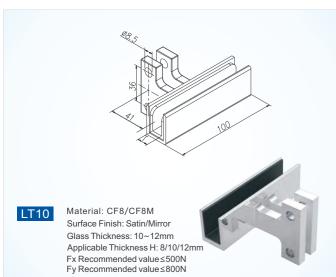




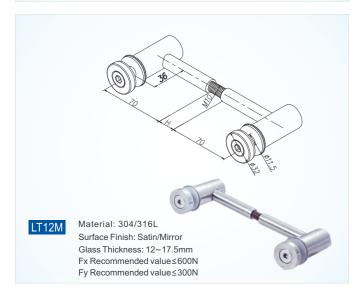
Fin-supported Balustrade Bracket

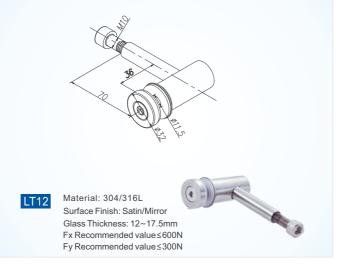












Fin-supported Balustrade Bracket

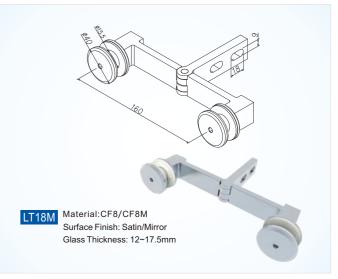




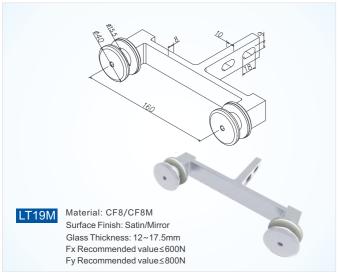




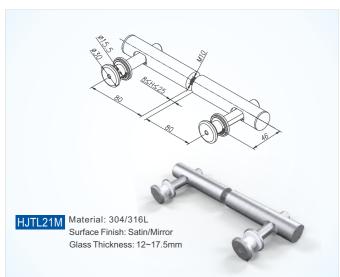


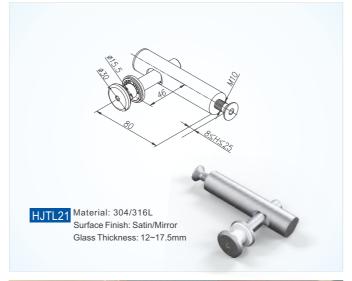


Fin-supported Balustrade Bracket







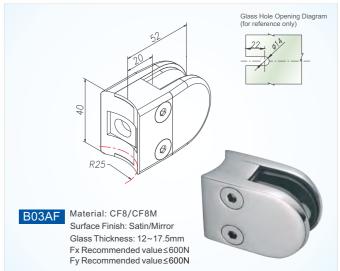




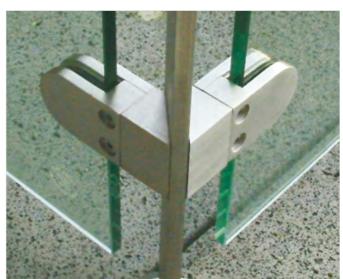


Glass Clamp

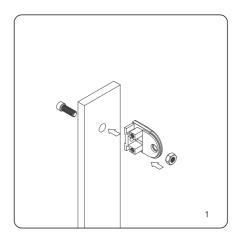


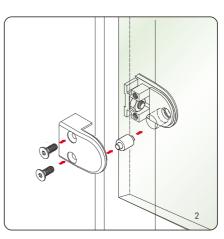


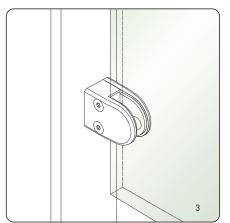




Point-fixed Type Clamp Installation Instruction





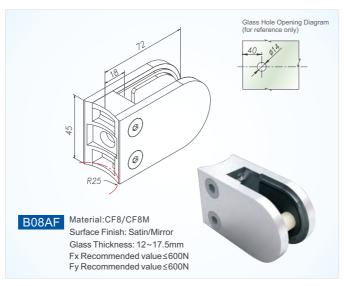


Glass Clamp





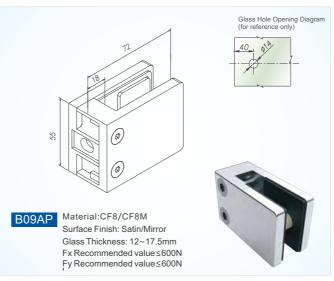


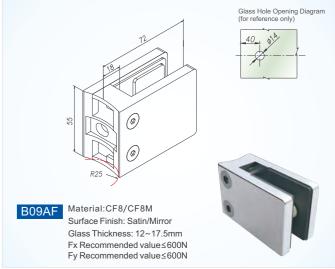


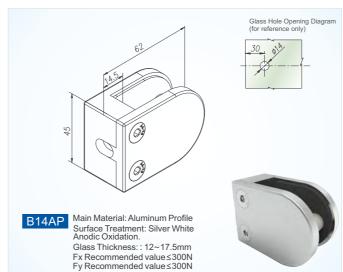


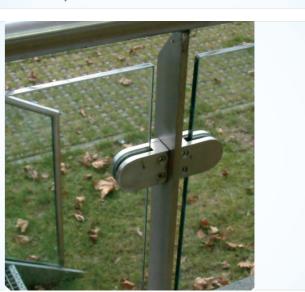


Glass Clamp

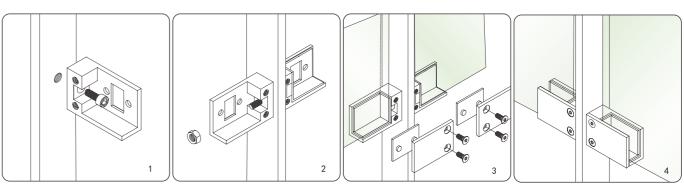




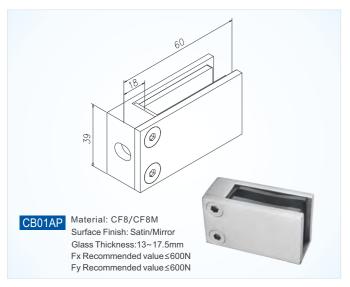




Supporting Type Clamp Installation Instruction



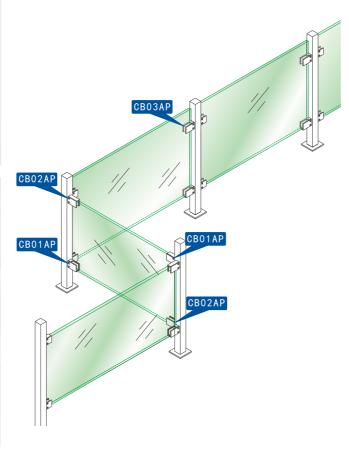
Glass Clamp











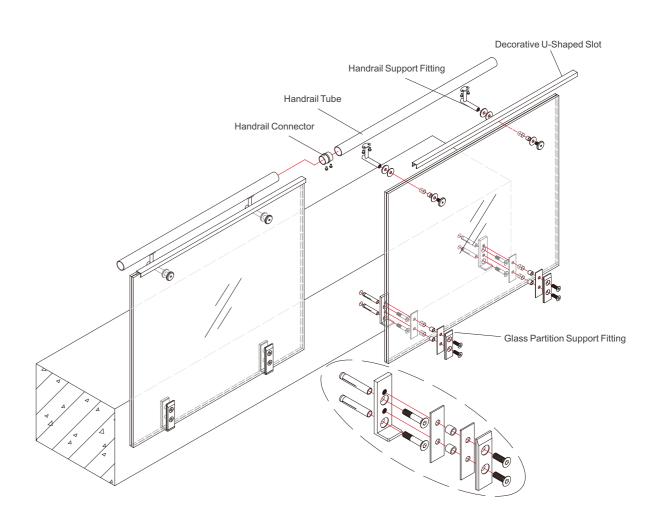
Glass Support Fitting Series











Glass Partition Support Fitting













Glass Partition Support Fitting











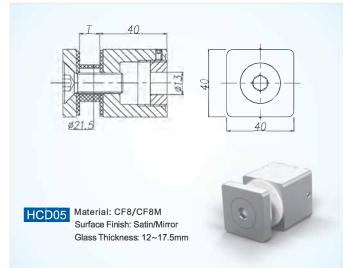
Glass Partition Support Fitting









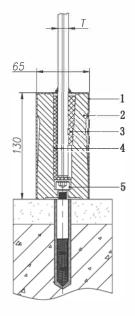




Aluminum Alloy U Groove









Cover Plate Material: 304/316L Surface Finish: Satin/Mirror Length: L≤3000mm



Gasket Material:6063-T5 Glass Thickness: 13.5/17.5mm Length :L≤6000mm



Gasket Material: ABS Quantity:4 pcs/m



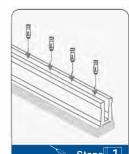


Cylinder Head Screw Nut Rod Material: 304+Q345B Quantity: 4 pcs/m.

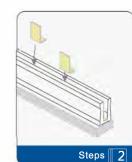


Material: 304/316L Surface Finish: Satin/Mirror Note: It doesn't contain chemical medicament, please consult anchor product department for chemical medicament (CAG-12)

Installation Method

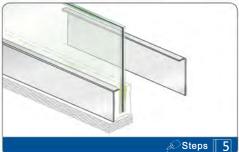












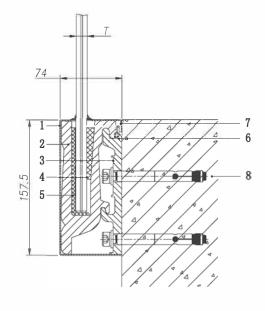




Aluminum Alloy U Groove

YM19







Material: 304/316L Material: 6063-T5 Surface Finish: Satin/Mirror Glass Thickness: 13.5/17.5mm
Length: L≤3000mm Length : L≤6000mm



Material:6063-T5 Length :L≤6000mm









Material: 304/316L Surface Finish: Satin/Mirror Length:L≤3000mm





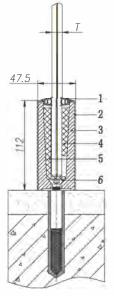
Back Decorative Panel Cylinder Head Screw Nut Rod
Material: Stainless Steel
Material: 304/316L
Quantity: 8 pcs/m



Aluminum Alloy U Groove

YM21A









Material: 304/316L

Surface Finish: Satin/Mirror Length: L≤3000mm



Material:6063-T5

Glass Thickness 13.5/17.5/21.5mm Length :L≤6000mm









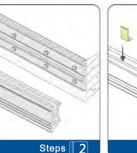


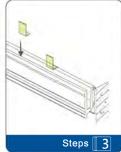


Installation Method



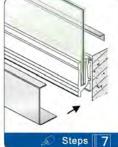












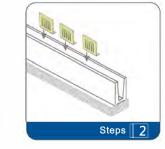


Steps 4



Installation Method









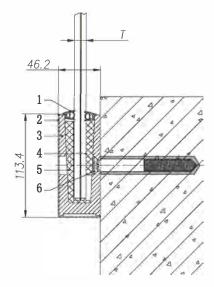




Aluminum Alloy U Groove Aluminum Alloy U Groove

YM21B







Material: 304/316L Surface Finish: Satin/Mrror Length: L≤3000mm

Material: 6063-T5 Glass Thickness: 13.5/17.5/21.5mm Length: L≤6000mm



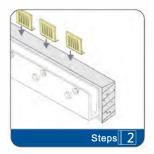






Installation Method





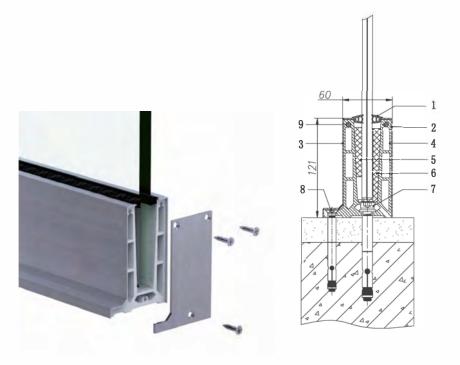


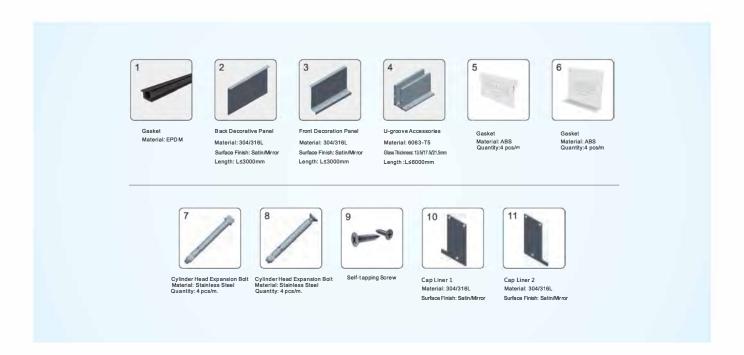




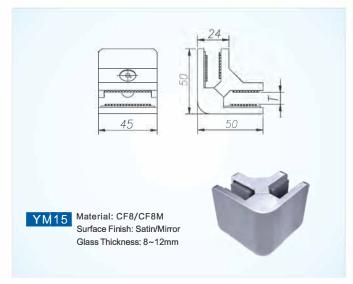


HCU01

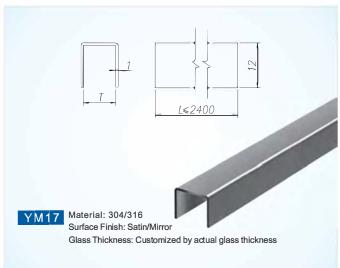


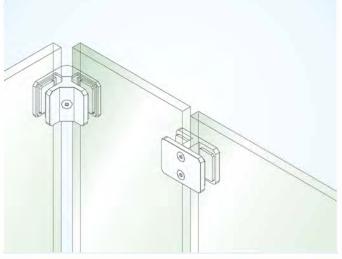


Glass Connector





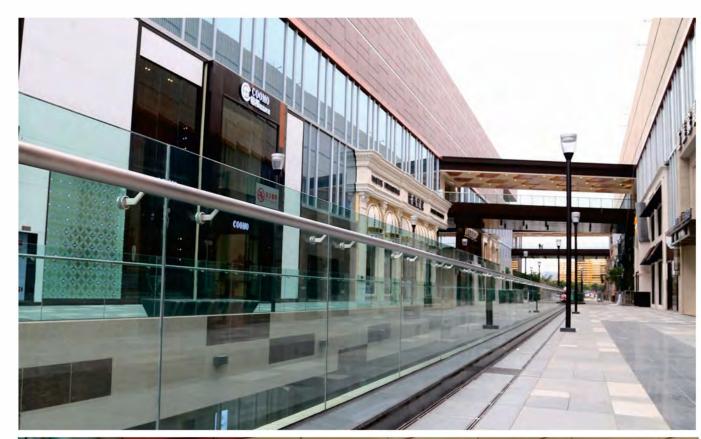






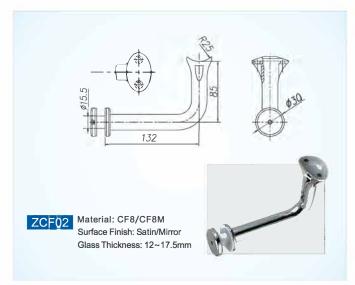


Handrail Fitting Series



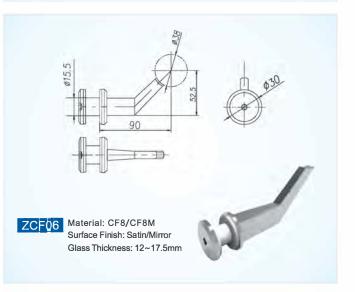


Handrail Supporting Connected to Glass







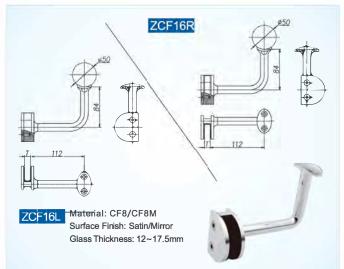






Handrail Supporting Connected to Glass

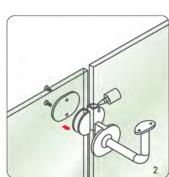


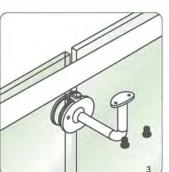












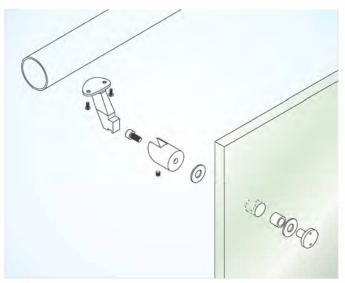


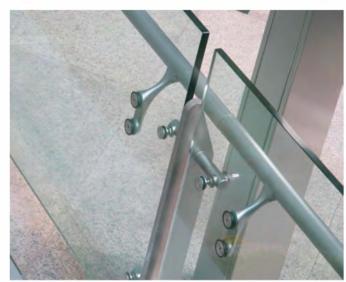
Handrail Supporting Connected to Glass





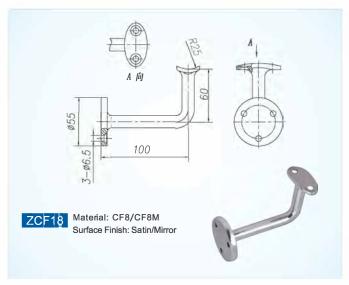








Handrail Supporting Connected to Wall





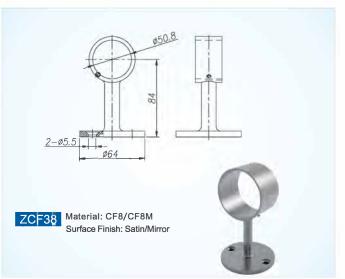




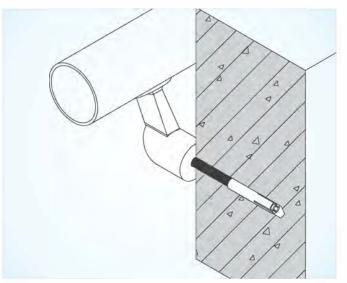


Handrail Supporting Connected to Wall











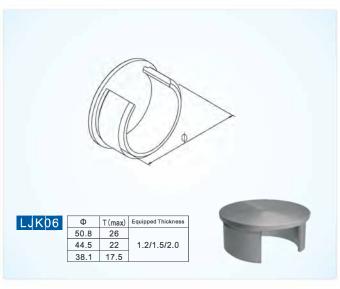


End Cap





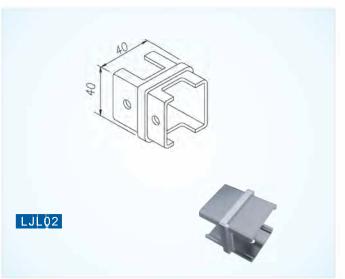






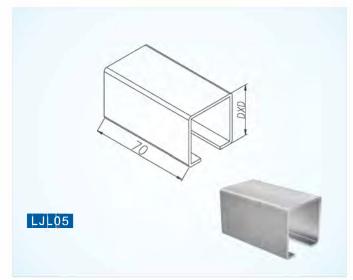
Connector

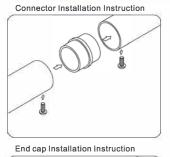


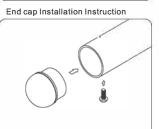


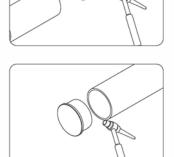




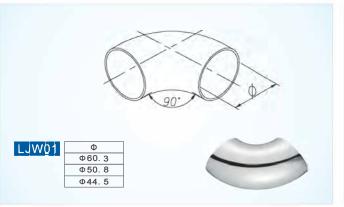


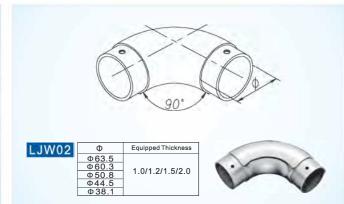


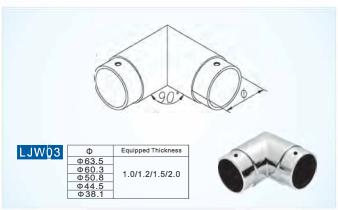




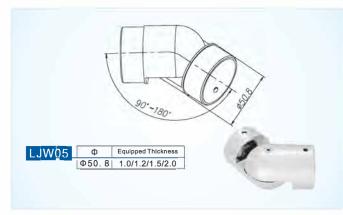
Elbow

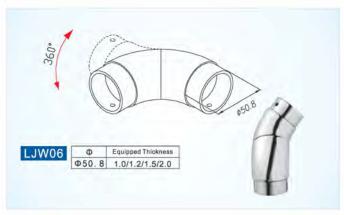


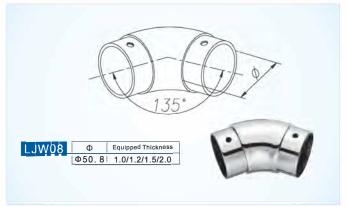


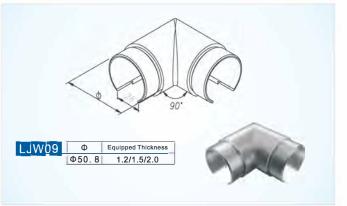








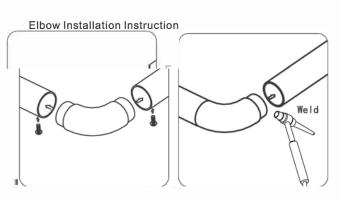




Elbow







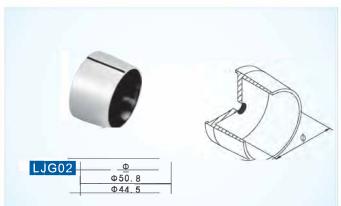






Base Plate

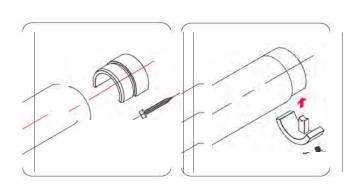










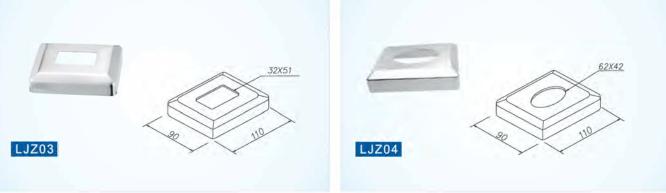






Cover Plate







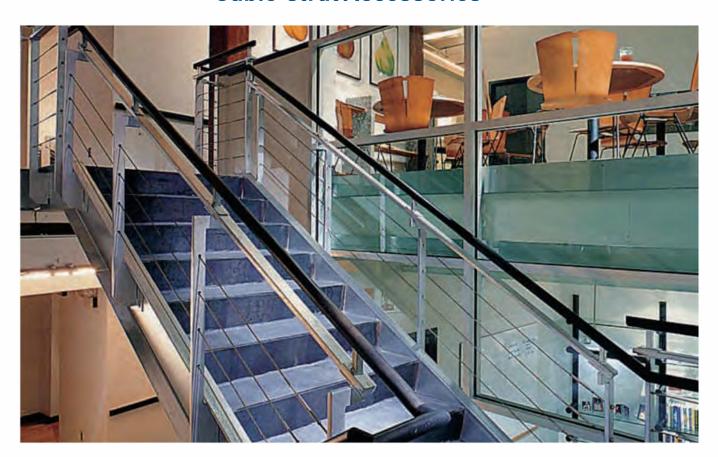
Base Plate and Cover Plate Installation Instruction







Cable-strut Accessories



Mechanical Performance of Stainless Steel Wire Rope

Structure	Nominal Diameter	Minimum Breaking Tension (KN)	Reference Weight (kg/100 m)
6×7+1WS	ф3.0	6.37	3.70
(7×7)	ф4.0	9.51	6.50
	ф5.0	14.7	10.5
6. B. c.	ф6.0	18.6	15.1
6×19+1WS			
(7 × 19)	ф4.0	10.7	6.7
	ф5.0	17.4	10.5
A CONTRACTOR OF THE CONTRACTOR	ф6.0	23.5	14.9

Note: Above content quoted from GB/T 9944 《stainless steel wire ropes》

Micro Cable Accessories



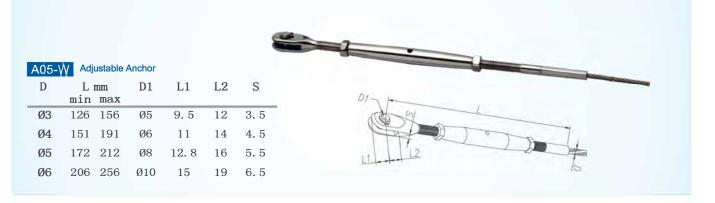
Diagram for Micro Cable Assembly

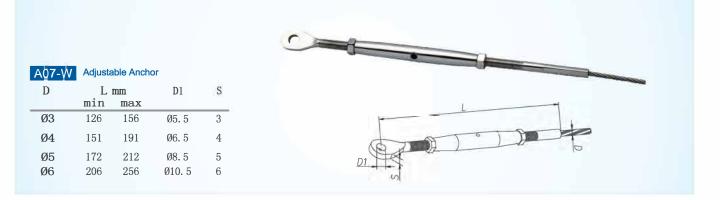


Anchor





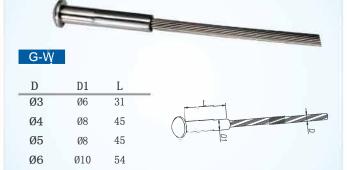


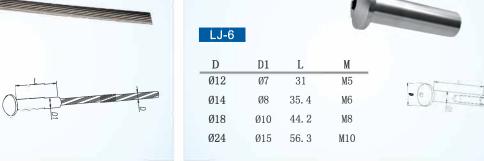


Anchor

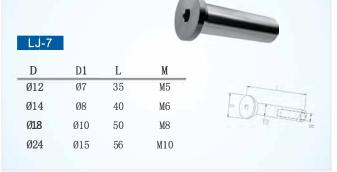










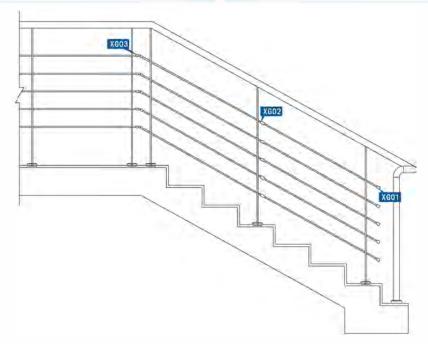


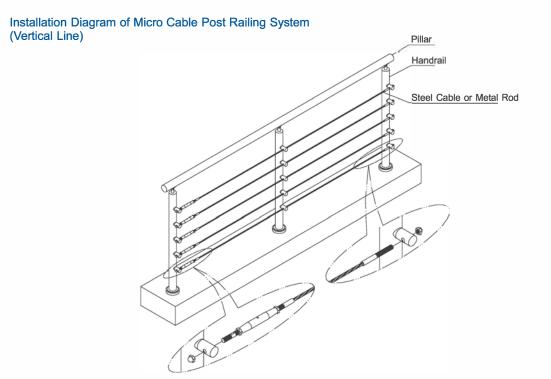
Micro Bar Accessories





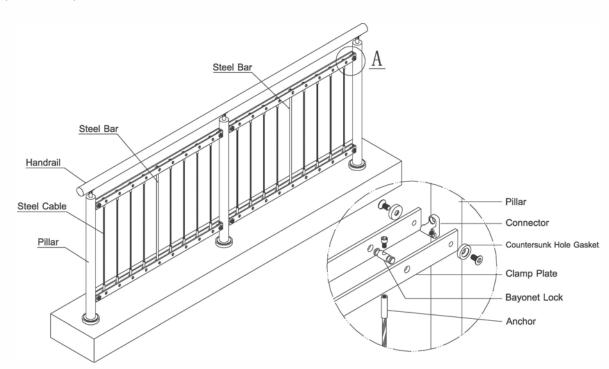






Note: The platform is not recommended to use the horizontal steel cable post railing system. This type of post railing is suggested to be used at the staircase and slope places.

Installation Diagram of Micro Cable Post Railing System (Vertical Line)











Assembled Staircase Accessories Series







Assembled Staircase N01



- ① N01-01 Upper Supporter
- ② Glass Step
- ③ N01-10 Wall Supporter
- ④ N01-08 Connecting Rod
- ⑤ N01-09 Step Supporter
- N01-11 First Step Supporter.
- No1-05 First Step Supporter
- ® N01-04 Second Step Supporter
- 9 N01-03 Second Step Keel 10 N01-02 Keel
- ① N01-06 Strengthened Supporter
- ② Supporting Tubes
- [®] N01-07 Strengthened Supporting Cap

Note: Adjacent steps must be connected with connecting rod.

Reference style of #1 stair Installation.



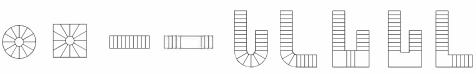






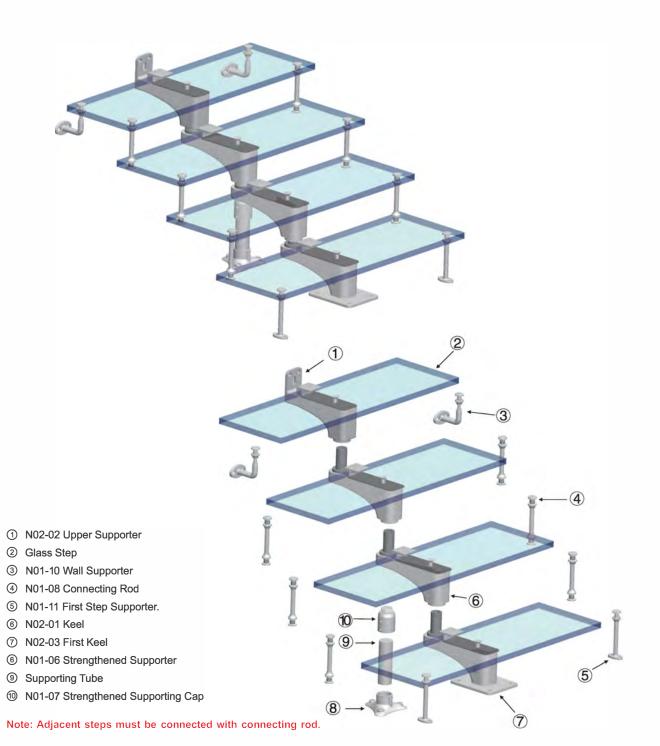








Assembled Staircase N02



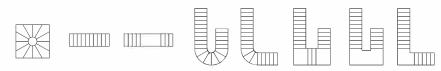
Reference style of #1 stair installation.



















Assembled Staircase N03



- ① N03-01 Keel
- ② Glass Step
- 3 N03-02 First Keel
- ④ N03-03 First Supporter
- ⑤ N03-04 Flange Ring
- 6 N01-08 Connecting Rod
- ⑦ N01-11 First Step Supporter

Note: Adjacent steps must be connected with connecting rod.

Reference style of #1 stair installation.







Assembled Staircase Accessories

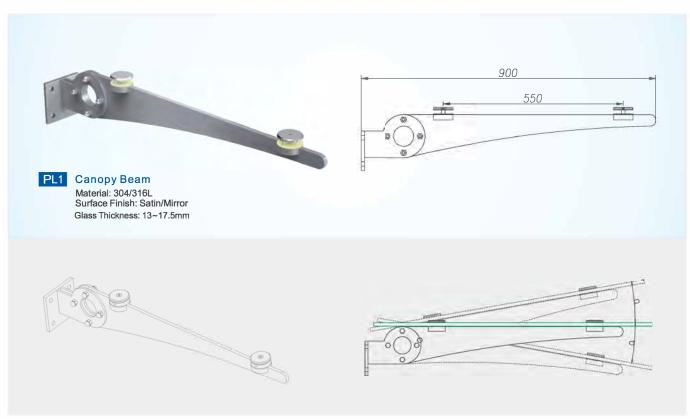




Assembled Staircase Accessories



Canopy Beam













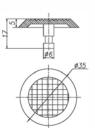
Metro Products

DTD01 Blind Nail





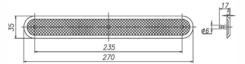




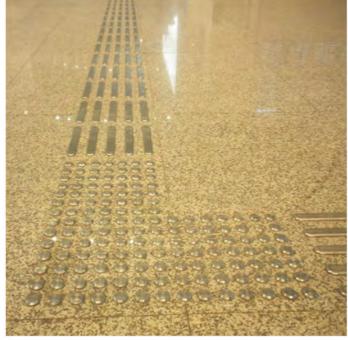
Material:CF8 / CF8 M Surface Finish:Satin

DTT01 Blind Bar





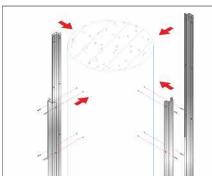


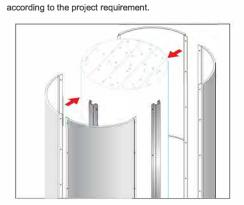


Sheet Metal Products

Material: 304/316L Surface Finish: Satin/Mirror





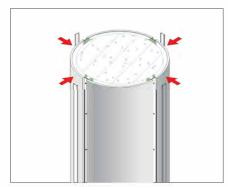


Note: Sheet metal unfolding size is less than

1500mm and the length of the size is less than

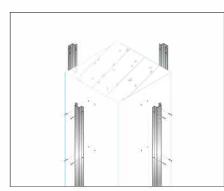
3000mm. All products should be customized

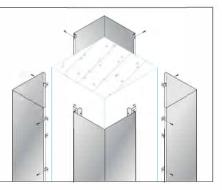


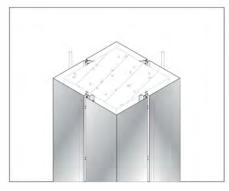


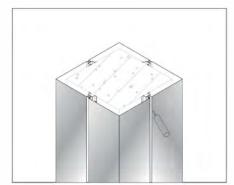














Commonly Used Pipe Specifications













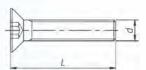
Note: Above specifications are for your reference only. Any other specification is required, please consult us.

Common Fasteners Matching Table



Hexagon Socket Countersunk Screw (DIN 7991)

Screw Nominal Length L: 12、16、20、25、30、35 Mark Example: Screw DIN 7991 M10*12





Bracket Fastener

Threaded Bolt (GB/T 15389)

Mark Example: Threaded Bolt GB/T 15389 M8*40



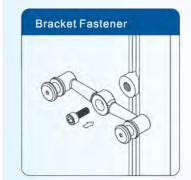


Cap Nut(DIN 1587)

Mark Example: Nut DIN1587 M8

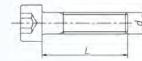






Hexagon Socket Cap Screw (DIN 912)

Screw Nominal Length L:10、12、16、20、25、30、35、40、45、50、55、60 Mark Example: Screw DIN 912 M10*16

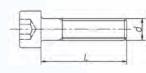






Hexagon Socket Cap Screw (DIN 912) Mark Example:

Screw DIN 912 M8*L











Post Railing Project Cases

Beijing Capital International Airport
Guangzhou Baiyun International Airport

Tianjin Binhai International Airport

Yunnan Kunming International Airport

Shanxi Taiyuan International Airport
Nanning Wuwei International airport

Jiangxi Nanchang International

Wuhan Tianhe International Airport

Chongqing Jiangbei International Airport Terminal T3

Taiwan Taoyuan International Airport

Dubai International Airport

Kenya International Airport

Tokyo International Airport

Doha International Airport

Muscat International Airport

Abu Dhabi Airport

The Emirates Aviation Building

Abu Dhabi International Airport

Cairo International Airport Terminal 2,

Abuja Nnamdi Azikiwe International Airport

The Queen Alia International Airport

Las Vegas casino International Airport

Kuwait new international airport administrative building

阿尔及利亚机场新航站楼项目

Tianjin Olympic Sports Center

Shanghai Expo Center

Oriental Pearl of Shanghai

Oriental Pearl of Shanghai

Ningbo International Financial Services Center

Zhenjiang Sports Center

Xi'an Baliu (Xi'an Horticultural Exposition)

Shenzhen Pingshan Cultural Center

Ningbo Cultural Center

Ningbo International Financial Center

Xiamen Straits Conference Center

Wuxi World Trade Center

Kunming Dianchi Exhibition Center

TheObservationDeckofBeijingOlympicsportspark
Hong Kong Asia International Expo

Xiamen Jiageng Stadium

Chengdu Metro Line 1, 2, 7

Fuzhou rail Transit Line 1

Shenzhen Metro Line 11

Wuxi Metro Line 2

Xi'an Metro

Shijiazhuang Metro

Changzhou Railway Station

Zhengzhou East Station

Tianjin Railway Station

Xi'an North Railway Station

Hong Kong West Kowloon High-speed Railway Station

Chengdu Second Ring Road Bus Rapid Transit System

Hangzhou Ginkgo Biloba

Hainan Island

Zhuhai Renheng Peninsula Garden

Yunnan Mountain bay

Tianjin Jewelry Garden

Xiamen Contemporary Heaven

Xiamen Hangho Qishang

Fuzhou East Lake · Yue Rong Bay

Chengdu Central Iron Rose Art City

Qinhuangdao Golden Dream Bay

Beijing Longshan Hua Fu

Guangzhou Time Bund

Flower capital of Guiyang Forest City

Zhongshan Xinghui Bay

Fujian Radio and Television Center

Kunming Party and Government Center

Xi'an Radio and Television Center

Guangzhou Mobile Branch

Comprehensive Dispatching Building of Henan Electric Power Company

Wuhu Huadian Complex Building

Russian State Building

Guangzhou Jinhai Mansion

Beijing Petro China Building

Wuxi World Trade Center

National Development Bank

Wuxi Radio and Television Media

Office Building Of Zigong Yun Machine Group

Beijing Chaoyang Joy City
Beijing Huazheng Building

Beijing COFCO Plaza

Wangfujing Department Store

Shanghai jinhongqiao International Center

Shanghai Yueyang Plaza

Shanghai Shopping Center

Guangzhou Zhujiang New Town

Shenzhen Vanke One City

Shenzhen Yitian Holiday Shopping Center
Shenyang Heng Long square

Shenyang Joy City

Shenyang glory Plaza

Shenyang Pengli Square

Shenyang Henglong Middle Street

Capitaland Raff City Chengdu

Chengdu Maoye Center

Yunnan Qujing Commercial Building

Kuming Jialianhua Square

Kunming Shuncheng Shopping Center

Lanzhou New World Shopping Square

Zhenzhou MIXC

Wuhan IKFA

Hangzhou MIXC

Wuxi IKEA Shopping Center

Qingdao Wanda Plaza

Bulgarian Varna Shopping Center

Singapore Binhai Bay Comprehensive Entertainment City

Australian Top West Mansion

Wenzhou a Wai Lou Resort Hotel

Doha Grand Hyatt Hotel
Xi'an Shenguang Hotel

Sheraton Zhanjiang Minda Hotel

Zhuhai Sheraton Hotel

Beijing Zhongcheng Hotel
Chengdu Maowen Hotel

Ningbo Crown Plaza Hotel

Hvatt Hotels

Dali Hilton Hotel

Hong Kong West Kowloon Hotel

93/94

Airport













Station

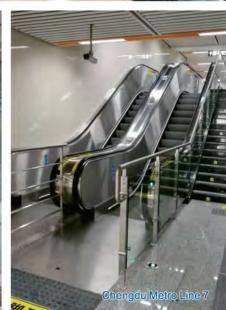












Commercial Complex











Commercial Complex













Public Building









Others













Others















Others



Others

















Others

PRODUCT WORLD

PIPE GALLERY, PIPELINE, RAIL TRANSPORTATION PRODUCT

















CABLE PRODUCT SERIES FOR STRUCTURAL ENGINEERING



DOOR & WINDOW HARDWARE SYSTEM

ALUMINUM DOOR & WINDOW

















INTERIOR DECORATION FITTING

DOOR CONTROL HARDWARE SERIES

LOCK HARDWARE SERIES









S.S. RAILING SYSTEM





TRENITE CONSTRUCTION TAPE















HBS SMART LOCK

SMART HOME SERIES





