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Post Railing Systems Typical Product Catalogue



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Product Catalogue



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Introduction for Product Material

I .Product material description

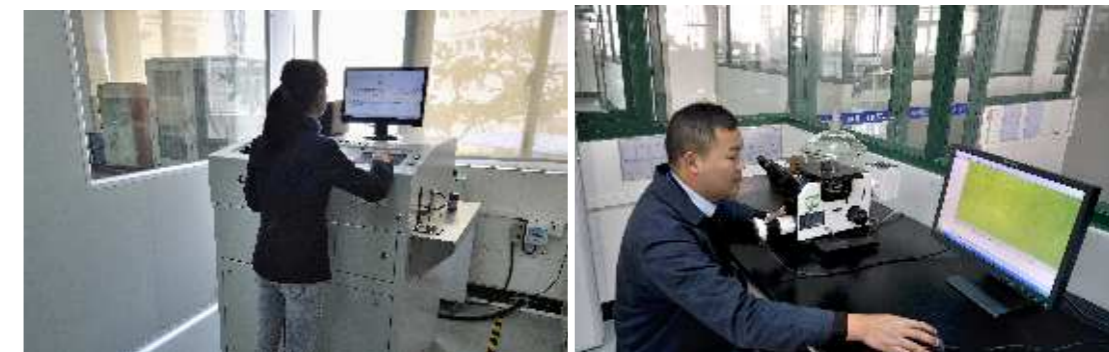
Commonly Used Raw Material

- Stainless steel plate:316L,304 (ASTM A666,ASTM A240/240M/);
- Stainless steel tube:316L,304 (ASTM A554,ASTM A269/A269M);
- Stainless steel rod:316,304 (ASTM A276/A276M)
- Stainless steel casting:CF8M,CF8,CF3M,CD3MN (ASTM A743/A743M,ASTM A890);
- Aluminum alloy profiles 6063-T6(GB/T 3190,GB/T 5237 series);
- Non-standard materials: Other materials required by customers (refer to other materials similar to 304 and 316);

Note: please mark the material requirements when ordering:

II .The Chemical Composition of Stainless Steel

UNS	Chemical Composition %									
	C ≤	Mn ≤	P ≤	S ≤	Si ≤	Cr	Ni	Mo	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	—	—
CF 8	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	—	—
CF3M	0.03	1.50	0.04	0.04	1.50	17.00~21.00	9.00~13.00	2.00~3.00	—	—
2205	0.03	2.00	0.030	0.020	1.00	22.0~23.0	4.5~6.5	3.0~3.5	0.14~0.20	—
CD3MN	0.03	1.50	0.04	0.020	1.00	21.00~23.50	4.5~6.5	2.5~3.5	0.10~0.30	—



STAINLESS STEEL MAINTENANCE GUIDANCE

I. Precautions for Storage and Installation

1. Precautions for Storage

- ① During transportation and unloading, collision or strong shaking shall be avoided to prevent parts from loosening and falling or products from scratching;
- ② When storing in a dry and ventilated environment, avoid the impact of sunlight, rain and other objects, and avoid the erosion of corrosive environment.

2. Precautions for Installation

- ① In order to ensure the service life of stainless steel, it should not be used in the environment with industrial pollution, chemical paint, acid rain and air corrosion
- ② Post Railing column should be fixed on the structural layer with expansion bolts or chemical anchor bolts, not directly fixed on the masonry or cushion; the anchoring reliability should be tested according to JG / T 473-2016 《Test method for anchorage of guardrail 》 before installation;
- ③ The perpendicularity and straightness of the pillar shall be ensured when installing the pillar. When welding the pillar and the embedded plate, the stainless steel welding rod shall be used for full welding reinforcement, and the protection shall be paid attention to, so as to prevent the welding slag from splashing on the stainless steel surface or other material surface and causing pollution. Antirust paint shall be applied at the welding position of pillar and embedded plate
- ④ Protective measures shall be taken during the installation of pillar to prevent cement mortar and dust in air on the surface of stainless steel guardrail and accessories. Please pack the product body and accessories with waterproof and dust-proof packaging materials. It is strictly prohibited to corrode stainless steel products with acid and alkaline liquid substances; if the products are rusted due to the adhesion of water mud mortar, acid and alkaline liquid residue, The relevant responsible unit shall be responsible for handling.
- ⑤ After the installation, the protective film on the surface of the column shall be removed in time, and the covering time of the protective film shall not exceed 1 months at most. If the adhesive residue is caused by not removing the protective film in time, the relevant responsible unit shall be responsible for handling.
- ⑥ There is no direct contact between glass and metal, so flexible gasket and cushion block should be lined. When installing glass, ensure that there is no missing installation of installation gasket and support gasket;
- ⑦ The screw installation torque should not be less than 60% of the screw breaking torque. In order to prevent the nut from loosening, it is recommended to coat the screw with thread locking glue in advance when installing the screw;
- ⑧ In order to avoid yellowing phenomenon of sealant and rubber gasket after use, it is suggested to select black sealant. Before gluing, the dyeing

II. Common pollution of stainless steel and cleaning methods

1. The causes and conditions of stainless steel pollution and rust are different, so the most suitable maintenance method should be adopted according to the actual situation.
2. Stainless steel surface with dust and easy to remove dirt, can use soapy water, weak detergent to clean.
3. Stainless steel surface trademark, film residue, you can use warm water, weak detergent to wash. Residual binder components can be scrubbed with alcohol or organic solvents (ether, benzene);

4. The grease, oil and lubricating oil on the surface of stainless steel can be cleaned with soft cloth, and then cleaned with neutral detergent or ammonia solution or special detergent.

5. When there is bleach and various acid attachments on the surface of stainless steel, it is necessary to wash with water immediately, then wash with ammonia solution or neutral soda water solution, and finally wash with neutral detergent or warm water.

6. There are rainbow lines on the surface of stainless steel, which are caused by excessive use of detergents or oil stains. Warm water or neutral washing can be used to remove them.

7. The cement or mortar splashed on the surface of stainless steel should be washed away with a lot of water before they set, otherwise it is difficult or even impossible to remove the solidified mortar from the surface of stainless steel without leaving traces.

8. The rust on the scaffold or the deposition of dust on the cutting wheel, the splashing of oxyacetylene combustion and the carbon steel pollution caused by long-time contact with carbon steel parts can be cleaned with special glue or 10% phosphoric acid solution, then rinsed with ammonia water, and then rinsed with cold water. Or moisten with oxalic acid solution for 15 minutes, then rinse with cold water and wipe dry.

III. Daily maintenance precautions

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 draw bench-surface.

2. It should be avoided to use scrubbing solution with bleaching composition, steel-wire-ball or lapping tool to wash up stainless steel. Don't forget to clean up with water after washing up.

3. When cleaning solution is used to remove pollution and rust, please make local "trial rub" in advance to confirm the cleaning effect. If the test result is feasible, the comprehensive cleaning should be done according to this method. The cleaning should not only be done for the contaminated and rusty parts, but also for the surrounding parts as far as possible. Avoid uneven gloss on the surface of stainless steel, thus affecting the appearance.

4. After the use of cleaning liquid, must use clean water completely clean, pay attention to do not let liquid residual stainless steel surface, otherwise it will cause rust.

5. Health, safety and environmental requirements related to chemicals and cleaning measures shall be determined prior to use. It includes the discharge of waste water / acid, the treatment of plastic film, etc.

IV. Maintenance Period

Stainless steel products should be cleaned regularly at least once or twice a year. According to the different environment, we can apply different cleaning cycles appropriately:

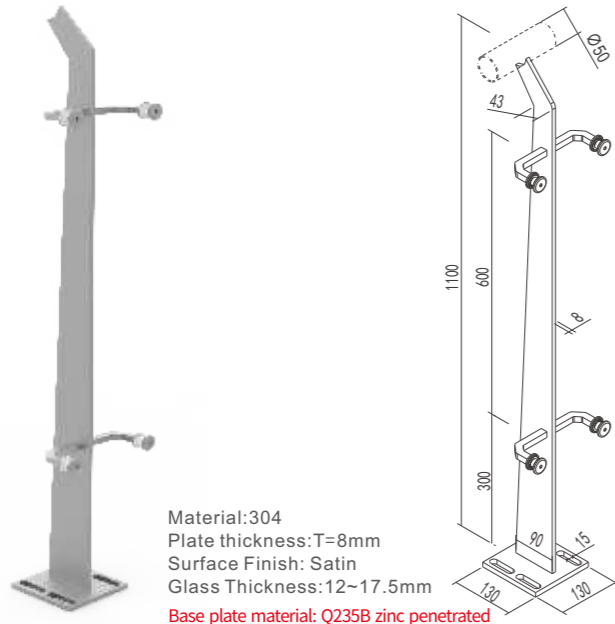
Environment		Villages And Towns (Times per Year)	City (Times per Year)	Industrial District		Coastal District	
Location	Structure			General Environment (Times per Year)	Corrosion Environment (Times per Year)	General Environment (Times per Year)	Corrosion Environment (Times per Year)
In-Door	without Contaminants 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
Out-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



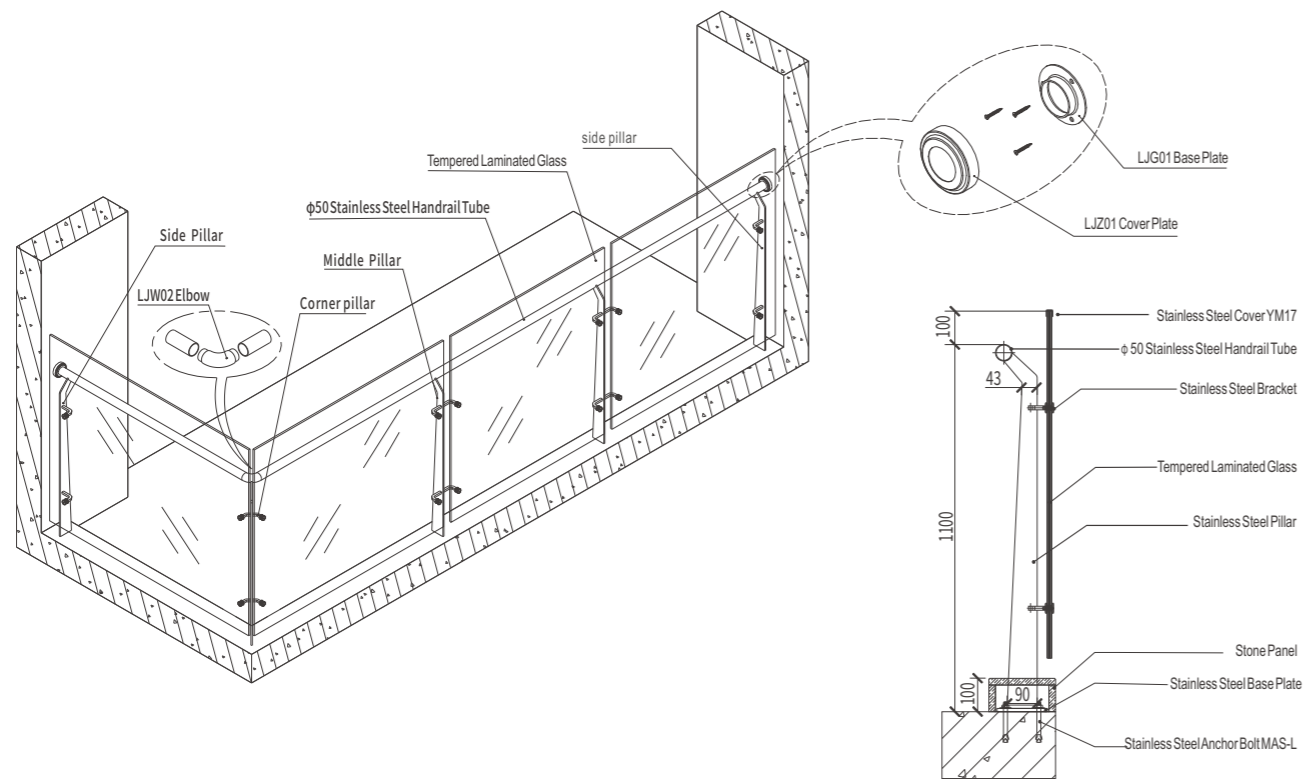
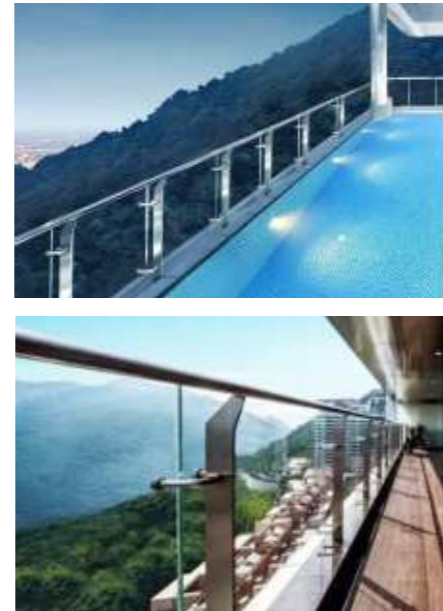
Product Features:

1. It adopts high-quality stainless steel raw materials with good mechanical properties and corrosion resistance.
2. Advanced mechanical polishing treatment with uniform surface texture, diverse color and easy for cleaning and maintenance.
3. It meets the requirements of JG / T342 《Glass and metal Guardrails for buildings》 and has high safety and good performance.
4. Simplified design, and elegant appearance with convenient installation.
5. There are various types of products, which are widely used in different kinds of civil buildings, public buildings and municipal gardens.
6. Respective solutions can be provided according to project requirements.

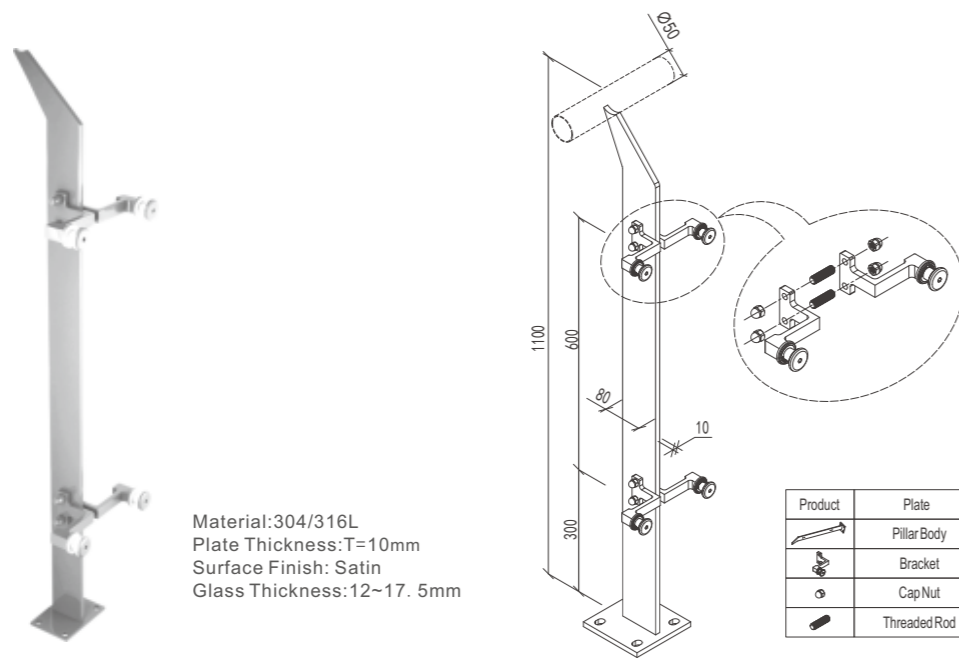
Single-plate Pillar: HLBD15



Middle Pillar: HLBD15-HJTL01M
 Side Pillar: HLBD15-HJTL01
 Corner pillar: HLBD15-HJTL01Z



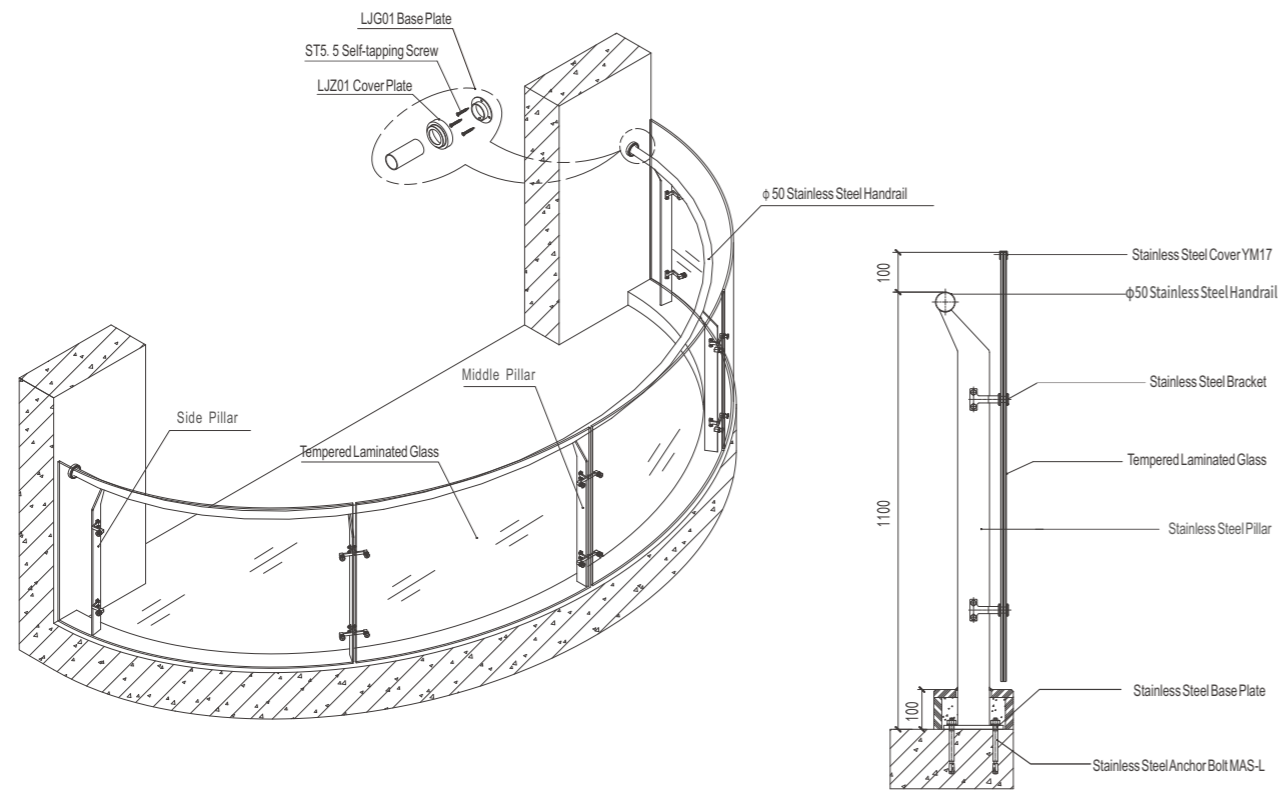
Single-plate Pillar:HLBD2



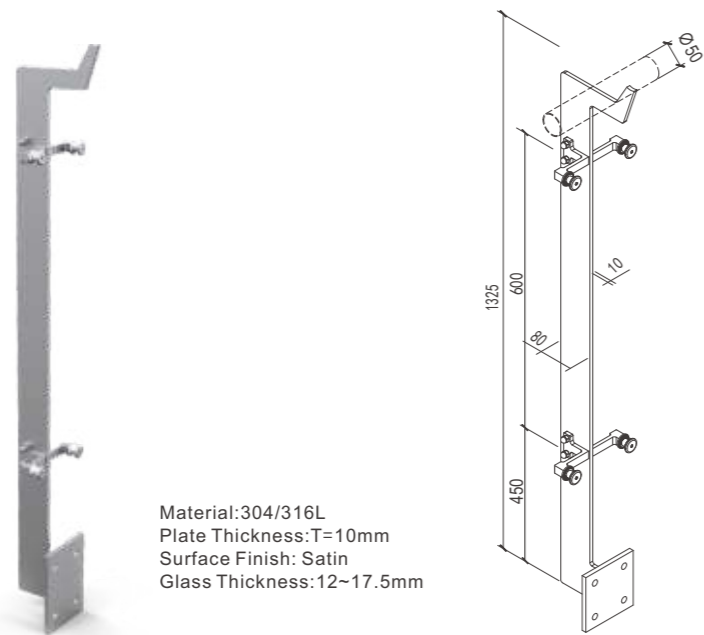
Material:304/316L
 Plate Thickness:T=10mm
 Surface Finish: Satin
 Glass Thickness:12~17.5mm

Product	Plate	Type Code	Quantity
	Pillar Body	HLBD2-T	1
	Bracket	LT02	4
	Cap Nut	DIN 1587 M8	8
	Threaded Rod	GB/T 15389 M8*45	4

Middle Pillar: HLBD2-LT02M
 Side Pillar: HLBD2-LT02



Single-plate Pillar:HLBD13

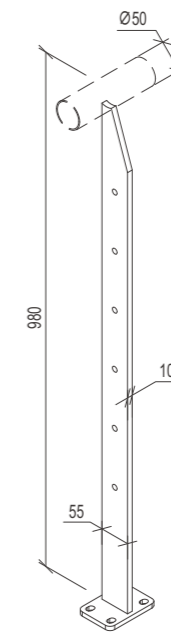
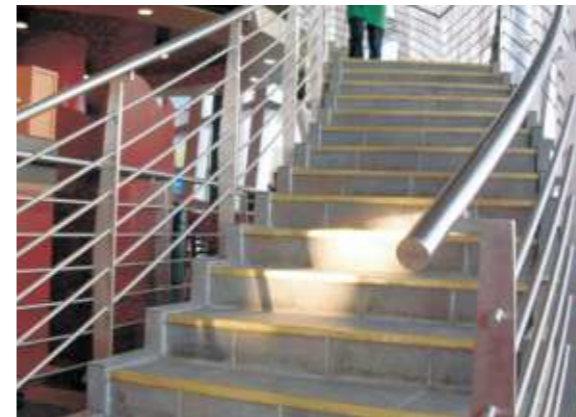


Material:304/316L
 Plate Thickness:T=10mm
 Surface Finish: Satin
 Glass Thickness:12~17.5mm

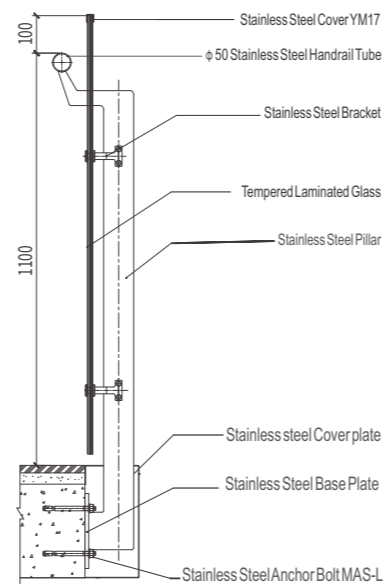
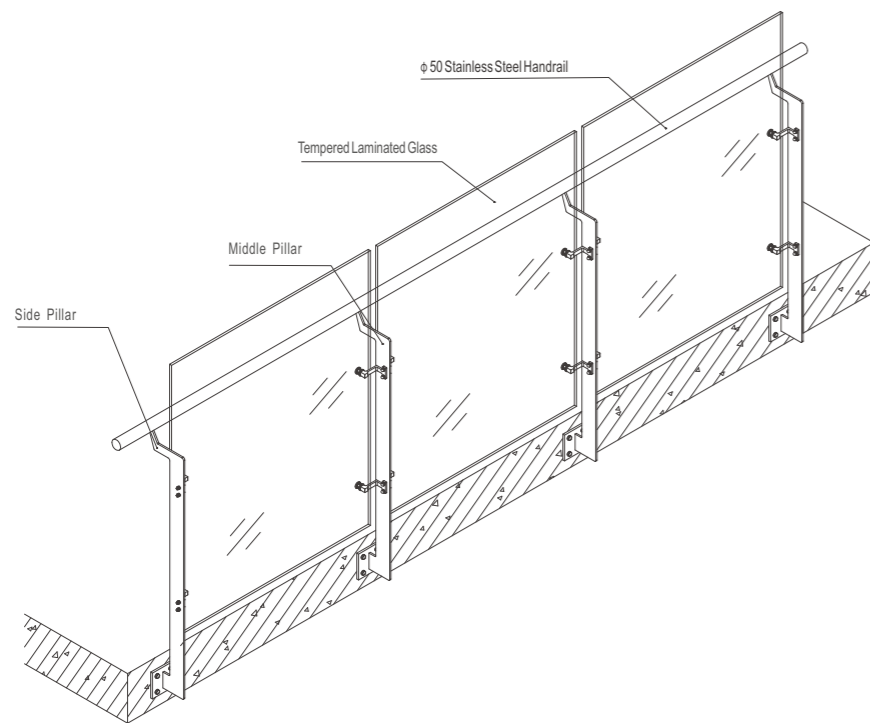
Bilateral Pillar: HLBD13-LT02M
 Unilateral Pillar: HLBD13-LT02



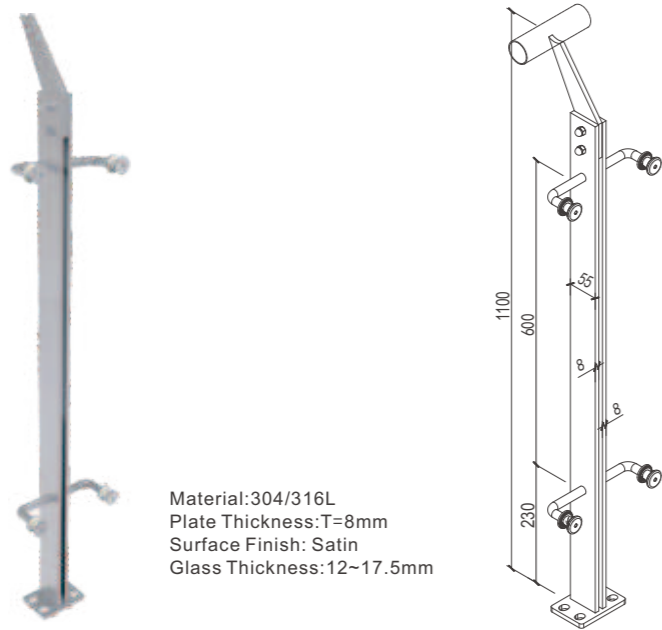
Single-plate Pillar:HLGD1



Material:304/316L
 Plate Thickness:T=10mm
 Surface Finish: Satin
 Glass Thickness:Ø10



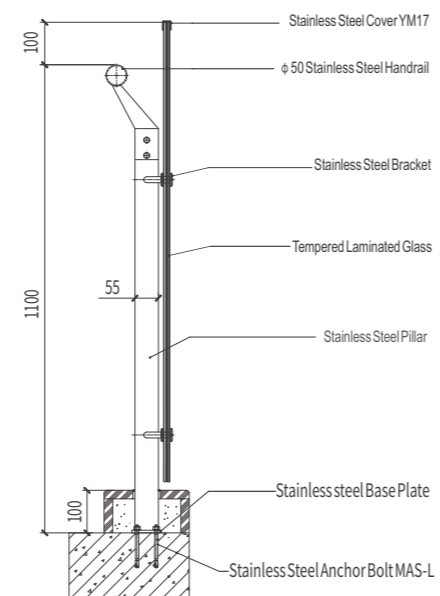
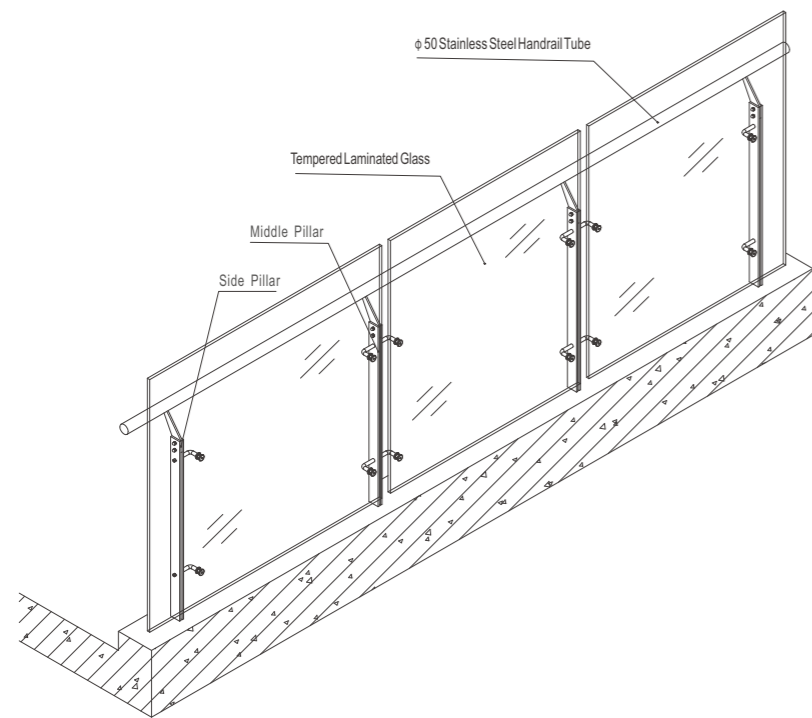
Double-plate Pillar:HLBS15



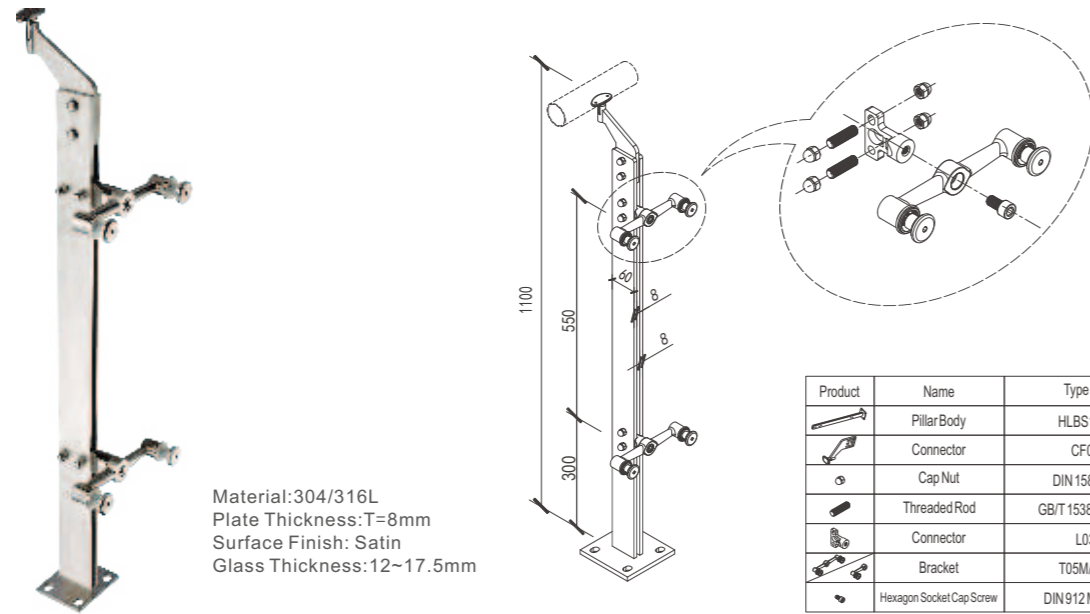
Material:304/316L
 Plate Thickness:T=8mm
 Surface Finish: Satin
 Glass Thickness:12~17.5mm



Middle Pillar: HLBS15-M
 Side Pillar:HLBS15-L/HLBS15-R



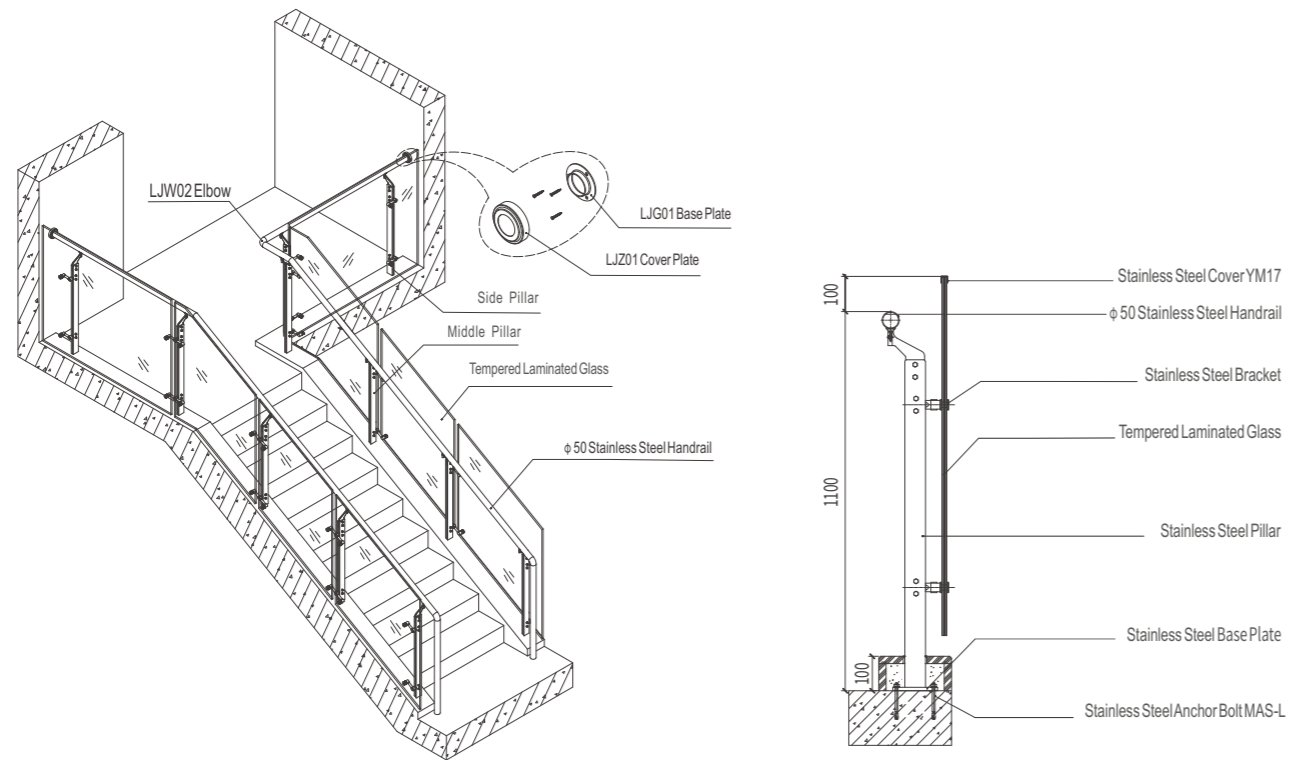
Double-plate Pillar: HLBS16



Material: 304/316L
 Plate Thickness: T=8mm
 Surface Finish: Satin
 Glass Thickness: 12~17.5mm

Product	Name	Type Code	Quantity
	Pillar Body	HLBS16-T	1
	Connector	CF04	1
	Cap Nut	DIN 1587 M8	12
	Threaded Rod	GB/T 15389 M8*45	6
	Connector	L03	2
	Bracket	T05M/T05	2
	Hexagon Socket Cap Screw	DIN 912 M10*16	2

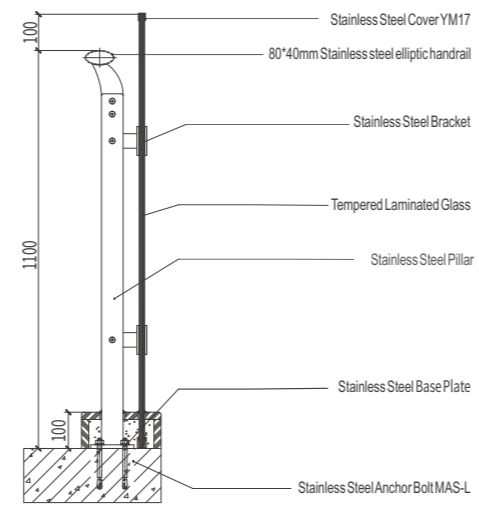
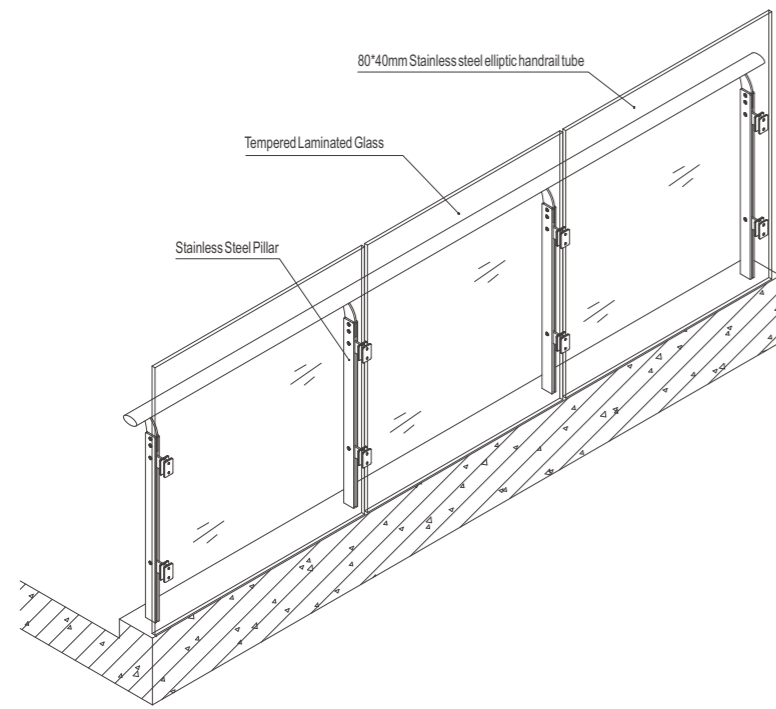
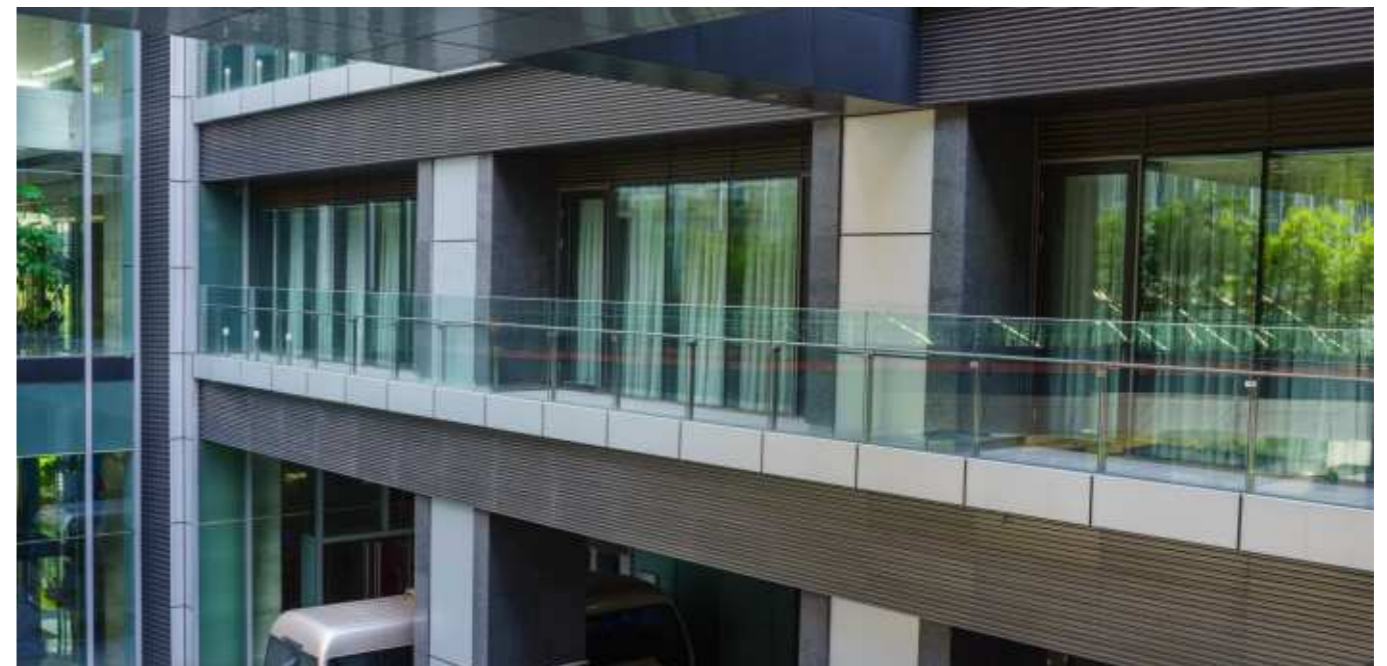
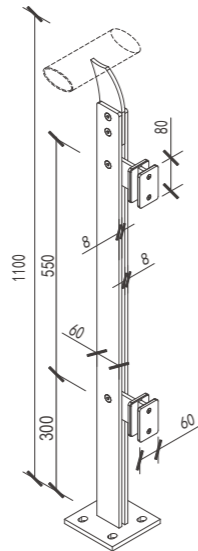
Middle Pillar: HLBS16-T05M
 Side Pillar: HLBS16-T05



Double-plate Pillar: HLBS17



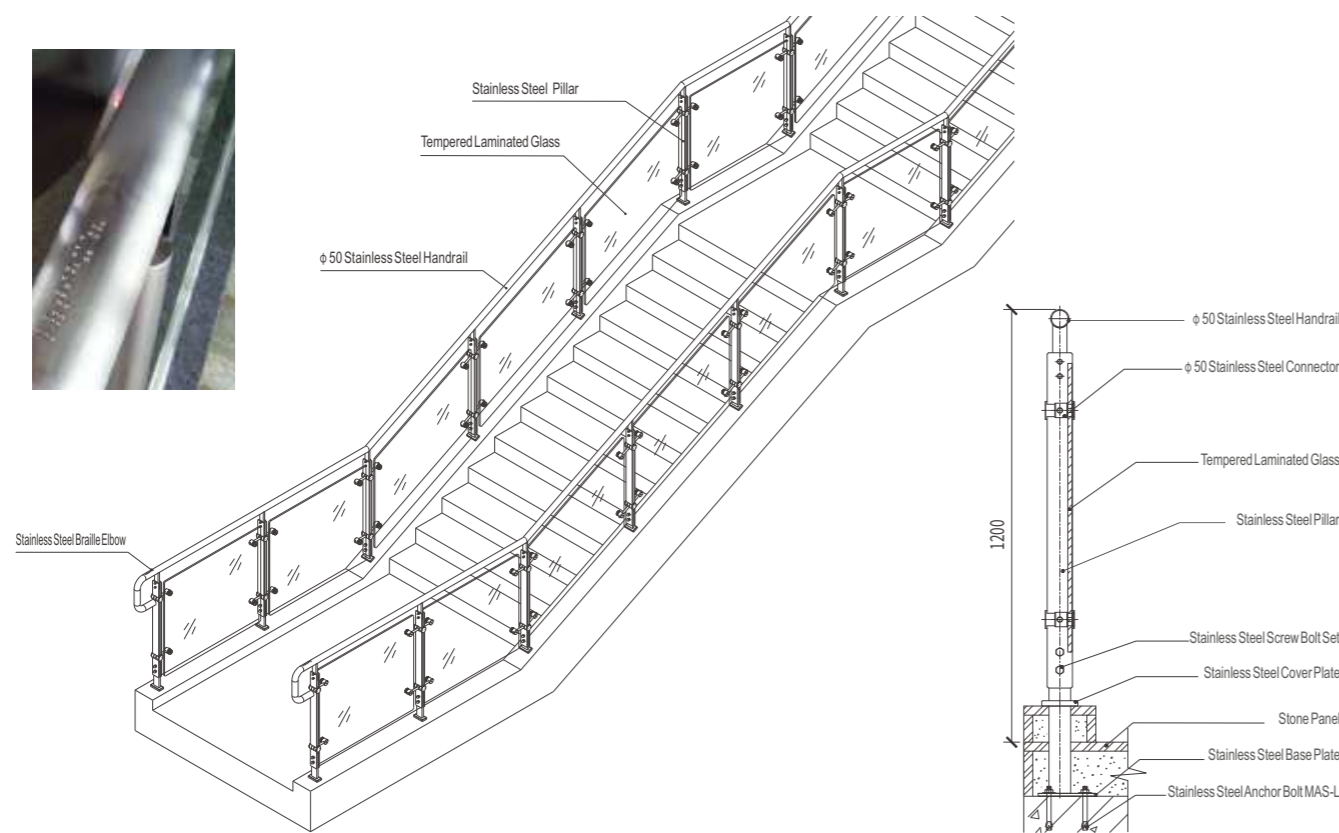
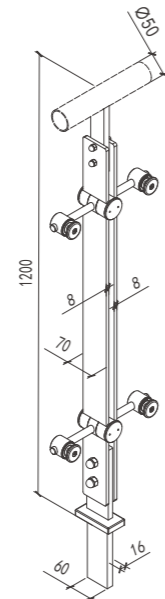
Material: 304/316L
 Plate Thickness: T=8mm
 Surface Finish: Satin
 Glass Thickness: 13.5~17.5mm



Double-plate Pillar: HLBS18



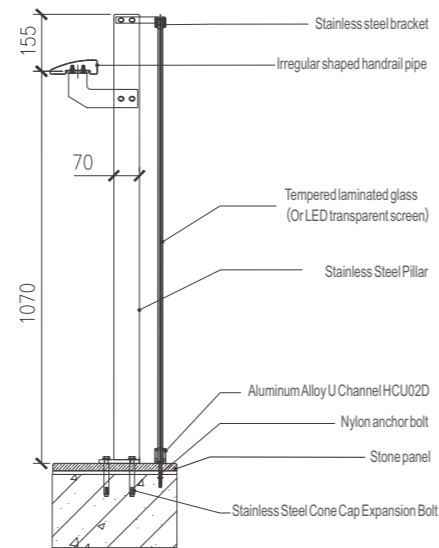
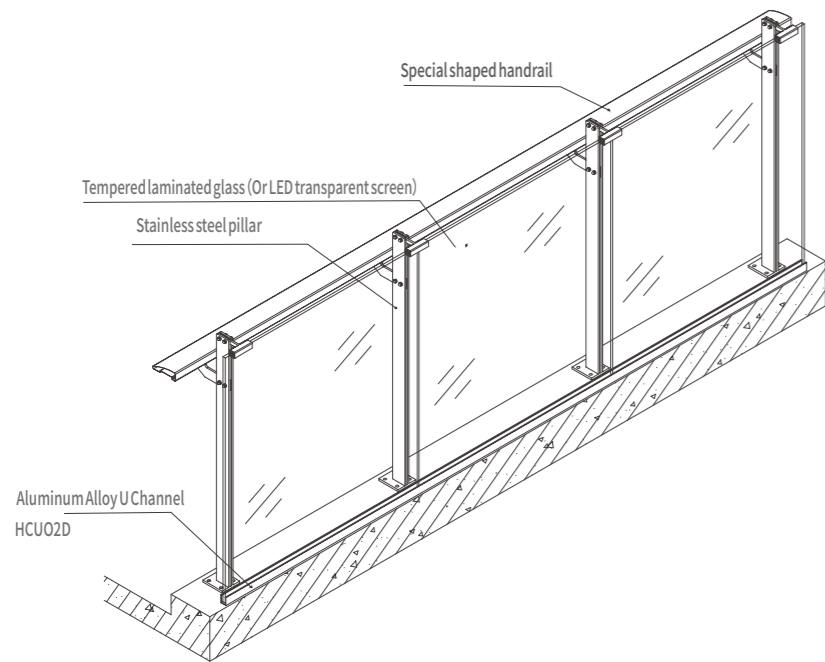
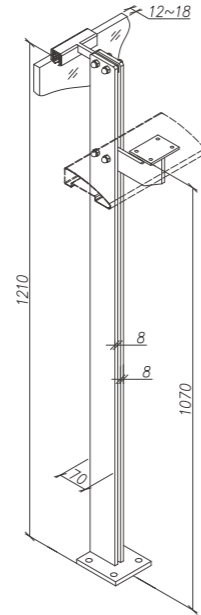
Material: 304/316L
 Plate Thickness: T=8mm
 Surface Finish: Satin
 Glass Thickness: 12~17.5mm



Double-plate Pillar: HLBS19



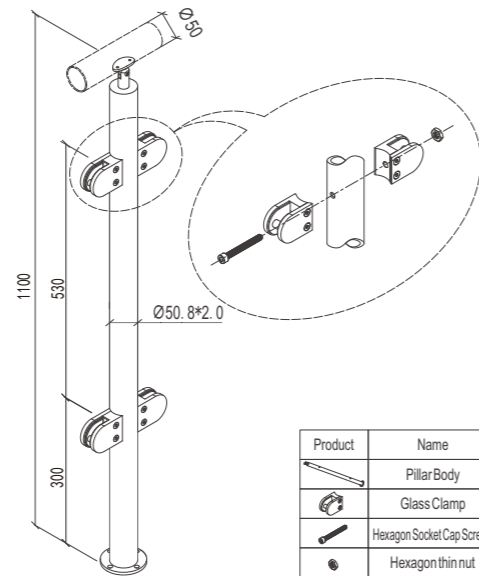
Material: 304/316L
 Plate Thickness: T=8mm
 Surface Finish: Satin
 Glass Thickness: 12~18mm



Circular Tube Pillar: HLBY1

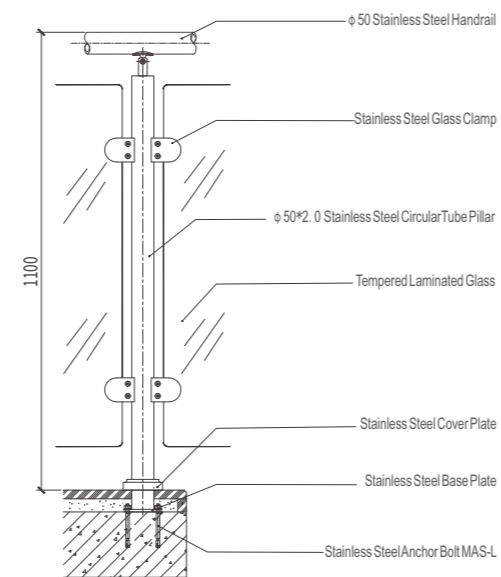
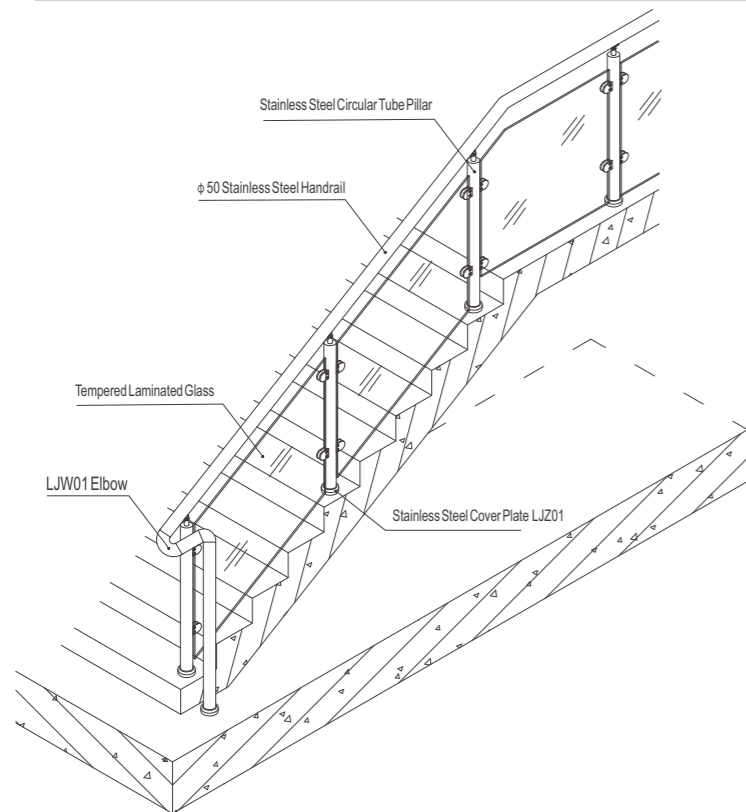


Material: 304/316L
Surface Finish: Satin
Glass Thickness: 12~17.5mm



Product	Name	Type Code	Quantity
	Pillar Body	HLBY1-B	1
	Glass Clamp	B04AF	4
	Hexagon Socket Cap Screws	DIN912M8*L	2
	Hexagon thin nut	GB/T6172.1	2

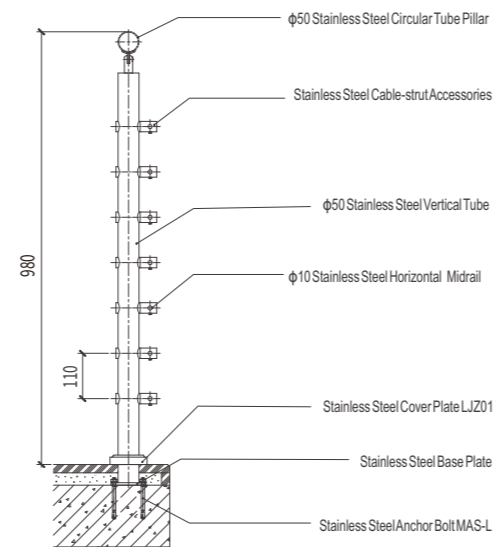
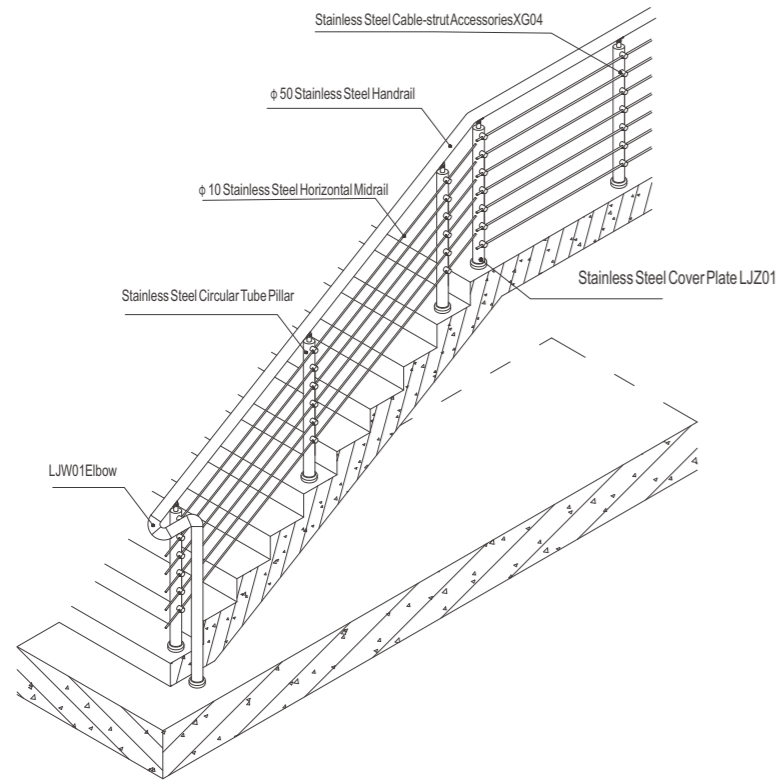
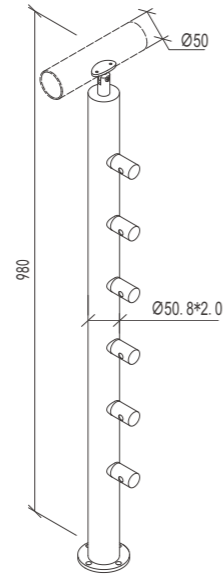
Middle Pillar: HLBY1-B04AFM
Side Pillar: HLBY1-B04AF



Circular Tube Pillar: HLG Y1



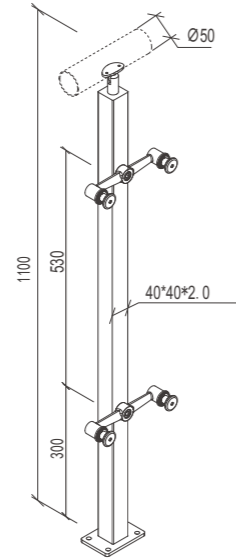
Material: 304/316L
 Surface Finish: Satin
 Note: Cover Plate Not Included,
 Can Be Ordered Separately



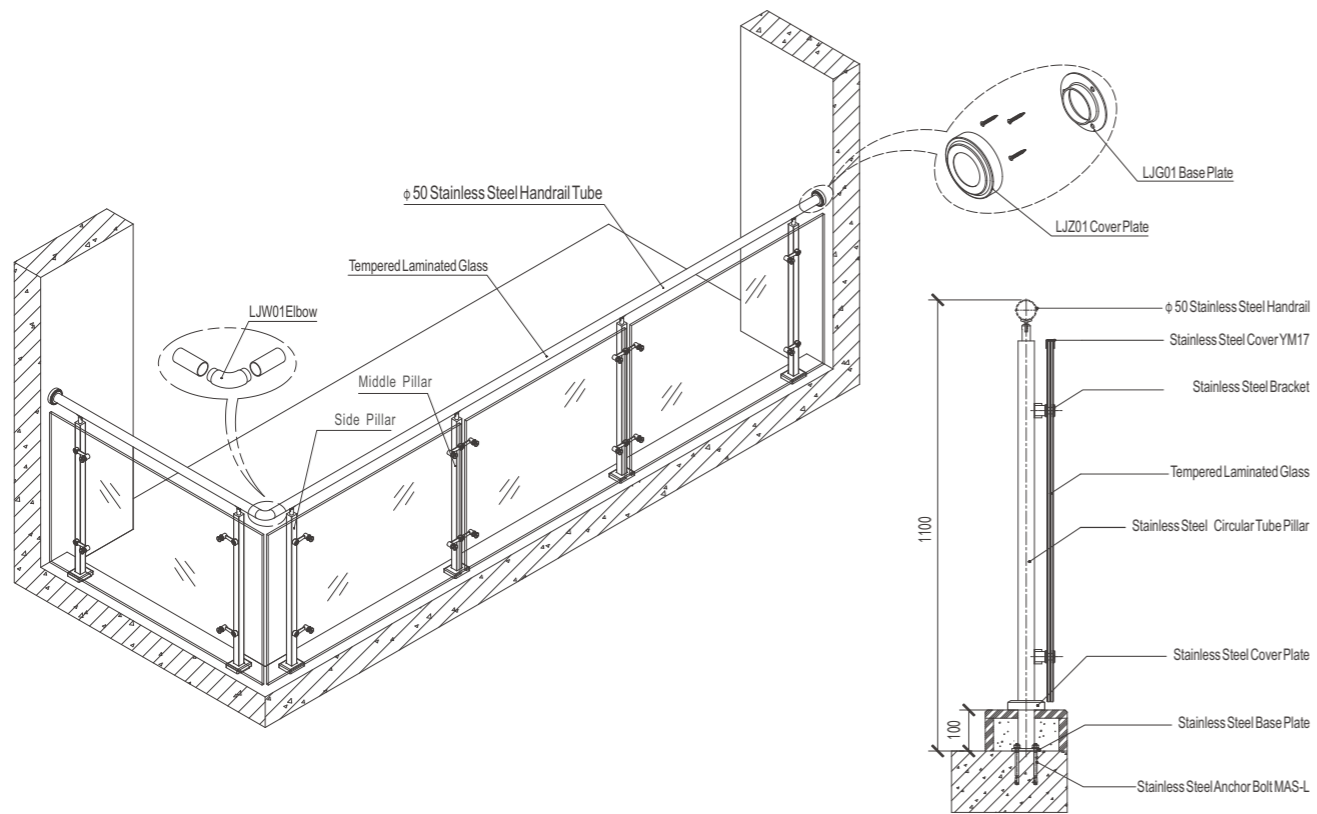
Square Tube Pillar: HLBF1



Material: 304/316L
 Surface Finish: Satin
 Glass Thickness: 12~17.5mm
 Note: Cover Plate Not Included,
 Can Be Ordered Separately



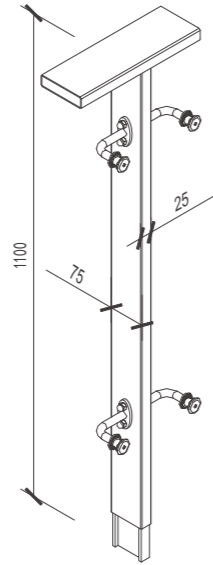
Middle Pillar:HLBF1-T10M(H01)
 Side Pillar:HLBF1-T10(H01)



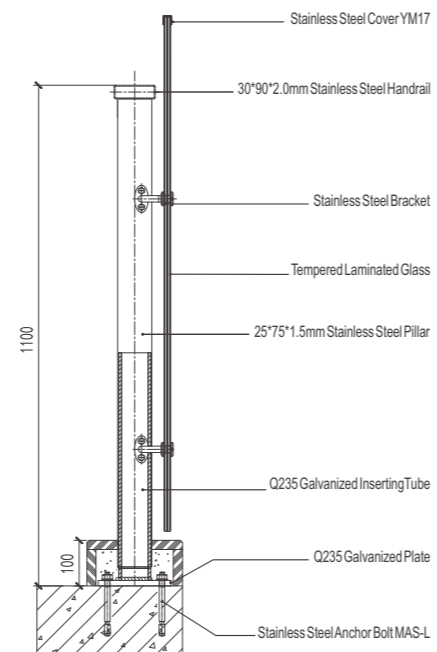
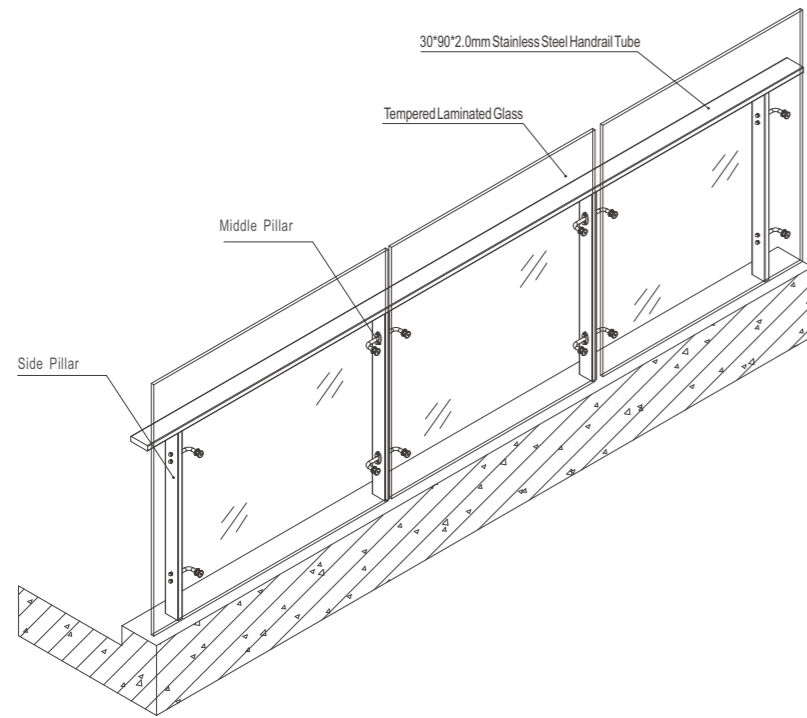
Rectangular Tube Pillar: HLBJ5



Material: 304/316L
Surface Finish: Satin
Glass Thickness: 12~18mm



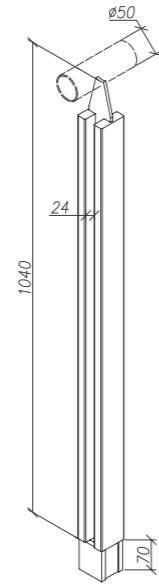
Middle Pillar: HLBJ5-LT14M
Side Pillar: HLBJ5-LT14



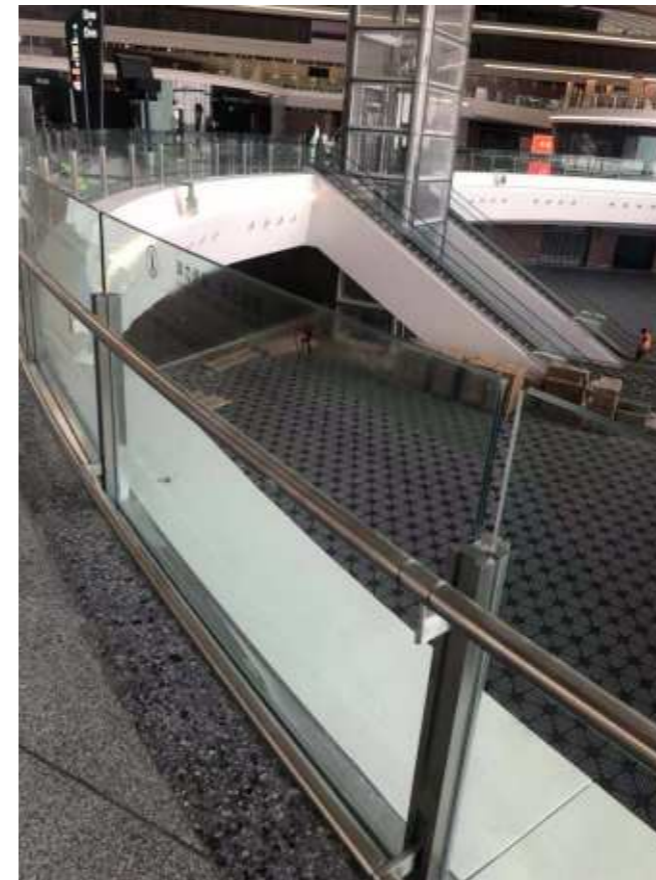
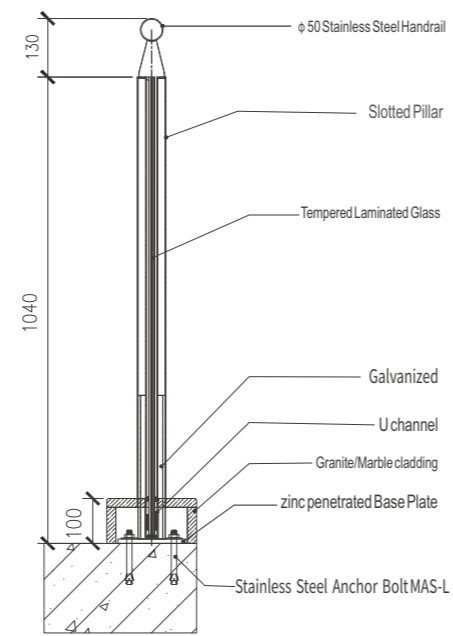
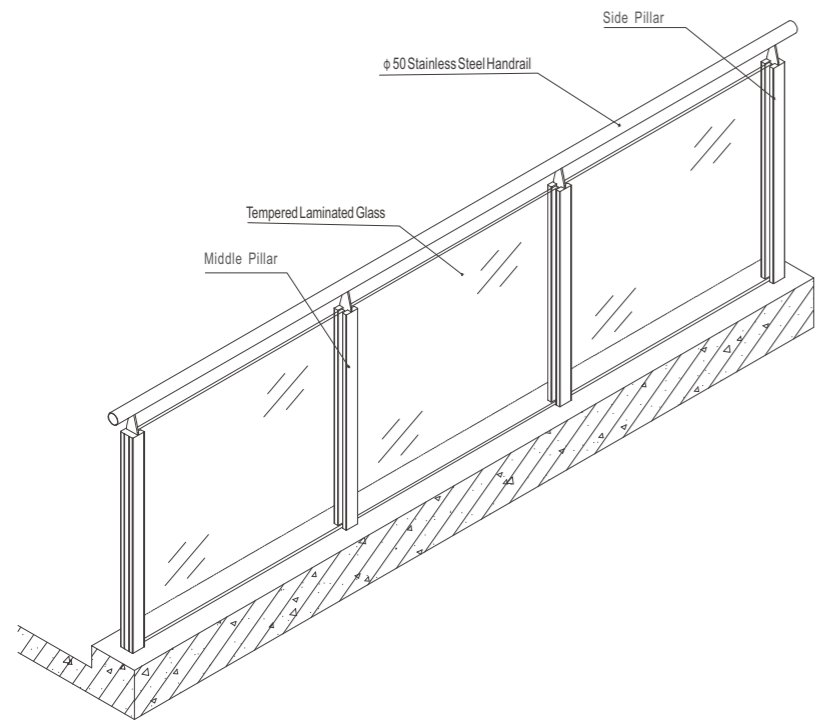
Groove section pillar HLBJ6



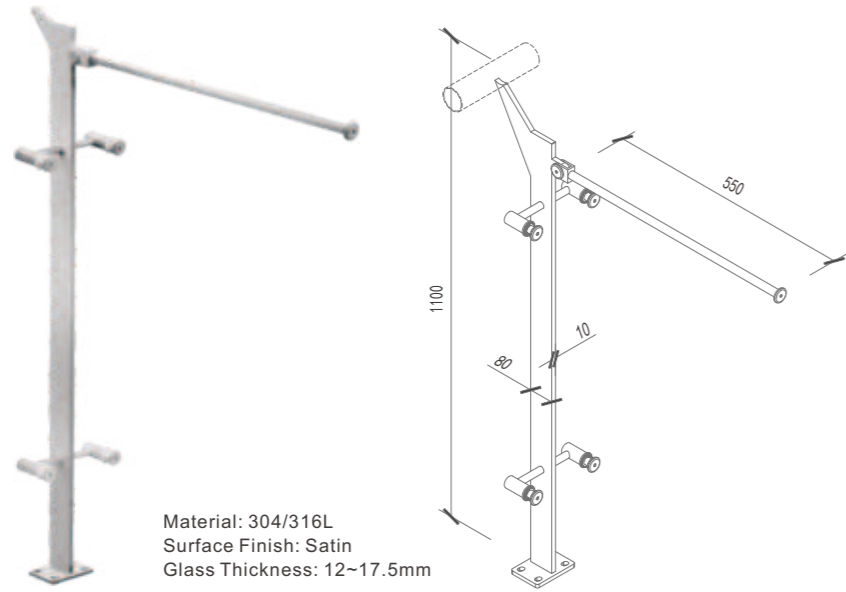
Material: 304/316L
 Surface Finish: Satin
 Glass Thickness: 12~18mm



Middle Pillar:HLBJ6-M
 Side Pillar:HLBJ6-J



Flagpole Balustrade Pillar: HLQB1



Material: 304/316L
Surface Finish: Satin
Glass Thickness: 12~17.5mm

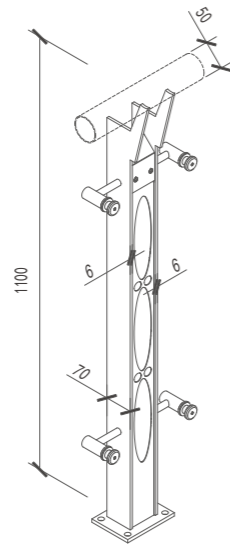
Product Features:
Flagpole staircase pillar is commonly used in the places like shopping mall, atrium, etc. The post railing fits together perfectly with flagpole which makes the appearance simple and generous. It is convenient to change AD flag.



Light Lamp Pillar: HLMD2



Material: 304/316L
Surface Finish: Satin
Glass Thickness: 12~17.5mm



Product Features: The lighting balustrade pillar is commonly used in the place like shopping mall, atrium, footbridge, etc. Constructional protection and light decoration come together cleverly. This series of products have a novel structure and concise appearance.

Middle Pillar: HLMD2-LT01M
Side Pillar: HLMD2-LT01



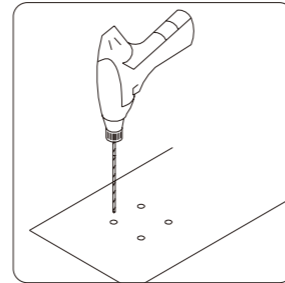
Installation Method for Stainless Steel Post Railing Product

There have two kinds of installation surface for the Posts as follows:

A: Install on the surface which have already finished the decoration: Setting-out and drilling holes as per the dimensions shown in the shop drawing (Make sure the anchor bolts are fixed on the structure layer), ensure that the installation surface is flat and the hole position is consistent with the opening size of the bottom plate of the posts.

B: Install on the surface of the civil structure: Before installation, the cement slag on the civil structure shall be cleaned, the laying out shall be carried out as per the dimensions shown in the shop drawing, and the axis shall be found out. The embedded steel plates shall be predrilled before install into the civil structure and fixed with chemical anchors or expansion bolts.

Setting-out Route and Drilling Hole



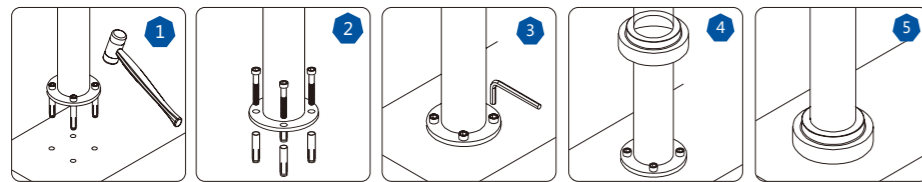
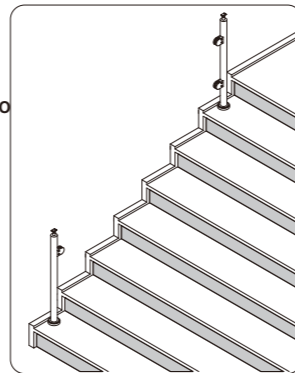
Install the Pillar

A: Install on the surface which have already finished the decoration: Place the bottom plate of the post on the drilled hole and fix it with chemical anchors or anchor bolts to make the post close to the ground.

B: Install on the surface of the civil structure: Positioning the vertical post plate position, make sure the installation height of the post, according to the installation height to adjust the height of the pillar plate (cut short or pad high), and spot welding to fix, with the level to check the perpendicularity of the post plate.

When staircase post is installed, fix the two posts on the two ends first and then install the remaining middle post according to the position of the handrail tube. Then, use the stainless steel electrode for full welding reinforcement. During welding, workers should pay attention to protect the stainless steel, prevent welding slag splash on the stainless steel resulting in stainless steel pollution. Finally, Coating the welding place with Anti-Rust Paint between Post and the embedded plate.

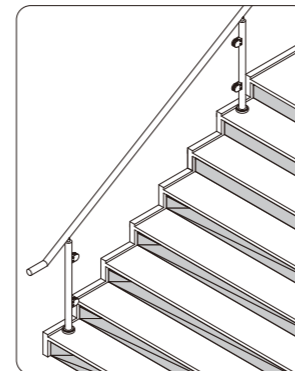
Install the Pillar



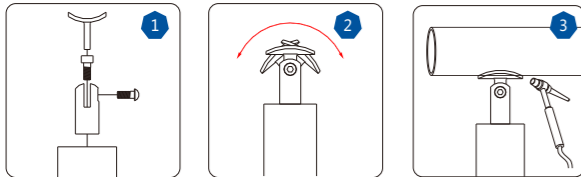
Install the Handrail

First to measure the length of the handrail required for the post railing system and carry out the blanking. Then install the decorative cover and the fixed seat into handrail, adjust the location of the handrail and fix the fixed seat to the wall by screws or anchor bolts, The handrail, posts and fixed seat shall be argon arc welded or fixed with screws. The connected part of the handrails shall be full-argon arc welded, the corner part should use elbow to undertake arc transition, and then the welded places of the handrail should be polished after all operations.

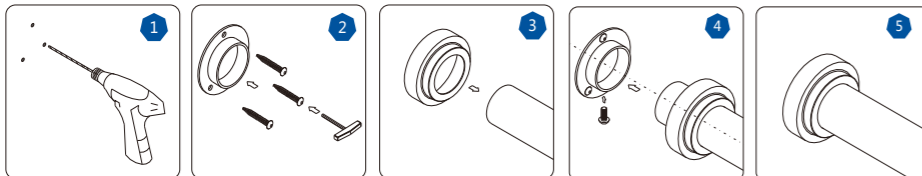
Install the Handrail



Connection of handrail and pillar



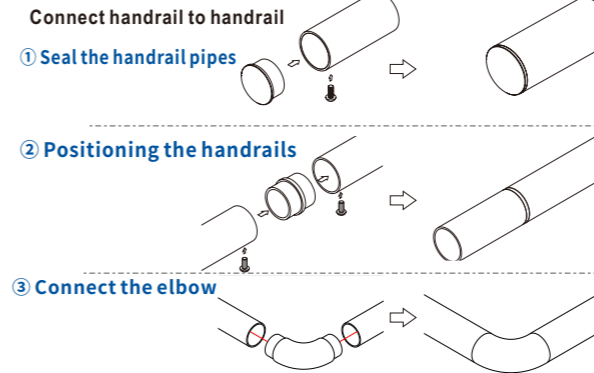
Connection of handrail and wall



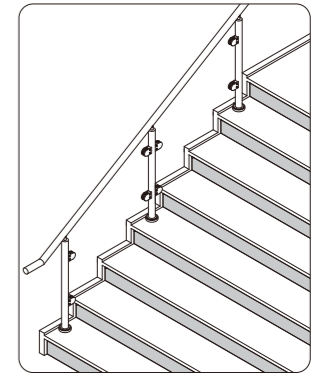
Post railing installation instructions

Install the middle pillar

Fix the position of middle pillars according to the connection line of two end pillars, by cutting or adding height, and point weld it for fixing. Then use a level to adjust the verticality of the pillar, and Stainless steel electrode is selected for full welding reinforcement. During welding, pay attention to protect the stainless steel to avoid the welding slag from splashing on the stainless steel surface or causing pollution. Finally, apply antirust paint on the welding part between the column and the embedded plate.



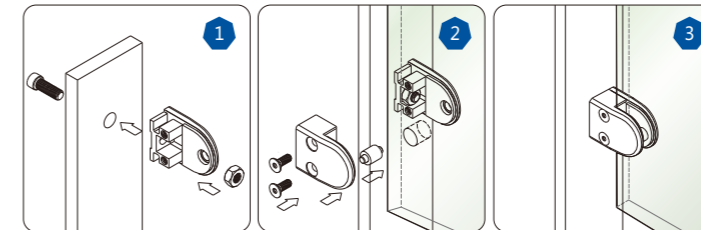
Step 4: install the middle pillar



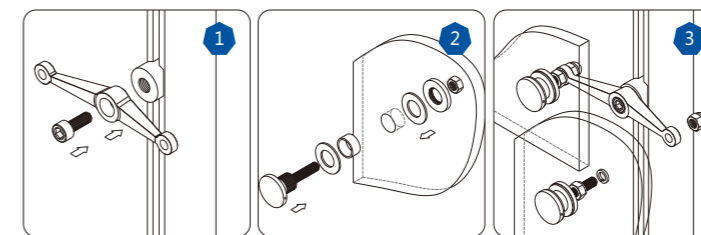
Install the Glass

According to the drawing and the actual site data, the glass is cut and installed. During Installation of glass, ensure that the mounting gaskets and supporting gaskets are not missing, all the glass and metal cannot be in direct connection to prevent a broken after strike.

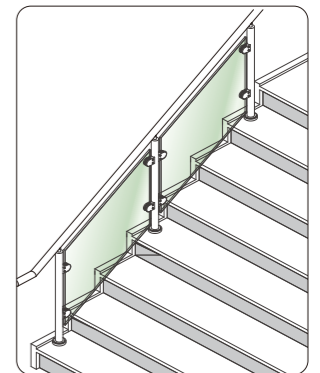
A: Fix glass with glass clamp



B: fix glass with spider



Step 5: install the glass

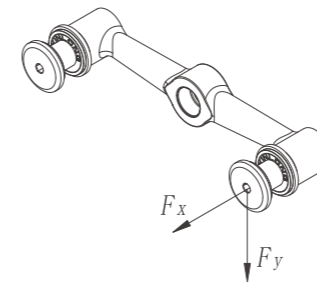


Inspection and Cleaning Protection

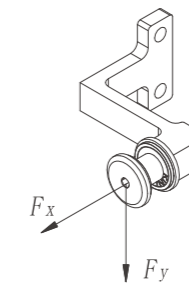
1. Check whether the railing, handrail is loose, if yes, it needs to be strengthened;
2. Check whether there is a leakage of welding, grinding, if yes, it needs to repair welding and re-polishing;
3. Check whether there is a missing installation for the gasket, if yes, it needs to rework;
4. Check whether the glass is broken, if yes, replace it in time if necessary;
5. Cleaning after installation: Wipe the glass, handrail, posts and other surface with wet towel to remove dust and sundries, and then wipe it with dry towel to ensure that the surface of the product is smooth, clean and free of beads and sundries. Finally, wrap the railings, to protect them from damage caused by other process construction teams.



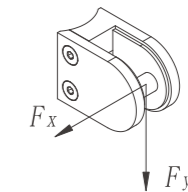
Calculation of axial and radial load for model selection



$n_x=2$
 $n_y=2$



$n_x=1$
 $n_y=1$



$n_x=1$
 $n_y=1$

1. The weight of the glass panel

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

- G_k - The weight of glass panel (N) ;
- B - The width of the glass (mm) ;
- H - The height of the glass (mm) ;
- T - The valid thickness of the glass (mm) ;
- ρ The density of glass ($2.56 \cdot 10^{-6}$ kg/mm³) ;
- g - Acceleration of gravity (10 N/Kg) ;

2. Axial Force

$$F_x = q \cdot B \cdot H / n_x$$

- 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

$$F_y = 1.2 G_k / n_y$$

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

4. The following recommended values of axial bearing capacity F_x and radial bearing capacity F_y of Spiders and glass clamps are the loads when 2mm deformation occurred under the action of detection force. The corresponding materials are 304, 316, CF8 and CF8M.

Front Fixing Balustrade Bracket

T01M Material: 304/316L
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤850N
 Fy Recommended value ≤850N

T01 Material: 304/316L
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤850N
 Fy Recommended value ≤850N

T05M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤2500N
 Fy Recommended value ≤1100N

T05 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤2500N
 Fy Recommended value ≤1100N

T06M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤1000N
 Fy Recommended value ≤750N

T06 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤1000N
 Fy Recommended value ≤750N

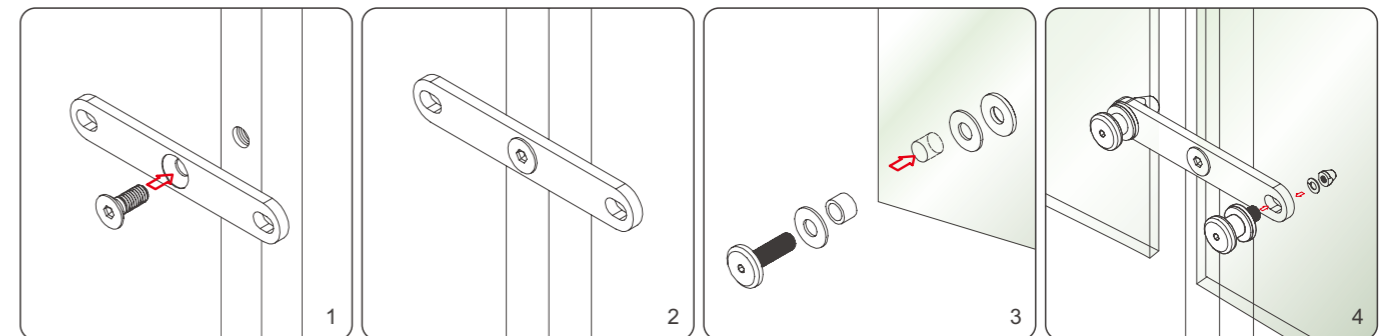
Front Fixing Balustrade Bracket

T07M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤2500N
 Fy Recommended value ≤950N

T07 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤2500N
 Fy Recommended value ≤950N

T08M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Deflection Angle : ±7°
 Fx Recommended value ≤700N
 Fy Recommended value ≤400N

T08 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Deflection Angle : ±7°
 Fx Recommended value ≤700N
 Fy Recommended value ≤400N



Front Fixing Balustrade Bracket

T09M Material: 304/316L
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~14mm
 Fx Recommended value ≤470N
 Fy Recommended value ≤600N

T09 Material: 304/316L
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~14mm
 Fx Recommended value ≤470N
 Fy Recommended value ≤600N

T10M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤1000N
 Fy Recommended value ≤800N

T10 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤1000N
 Fy Recommended value ≤800N

T11M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤1200N
 Fy Recommended value ≤320N

T11L Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤1200N
 Fy Recommended value ≤320N

T11R

Front Fixing Balustrade Bracket

HJTD01M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Deflection Angle : ±7°
 Fx Recommended value ≤850N
 Fy Recommended value ≤420N

HJTD01 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Deflection Angle : ±7°
 Fx Recommended value ≤850N
 Fy Recommended value ≤420N



Side Fixing Balustrade Bracket

LT01M Material: 304/316L
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 700N
 Fy Recommended value ≤ 350N

LT01 Material: 304/316L
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 700N
 Fy Recommended value ≤ 350N

LT02 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 590N
 Fy Recommended value ≤ 360N

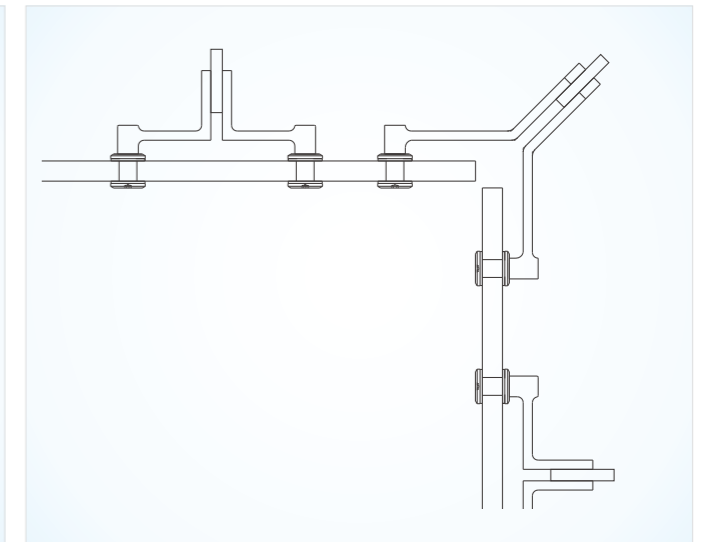
LT03 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 1000N
 Fy Recommended value ≤ 1200N

LT04 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 2500N
 Fy Recommended value ≤ 1500N



Side Fixing Balustrade Bracket

LT05 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 150N
 Fy Recommended value ≤ 250N



LT06M Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 1500N
 Fy Recommended value ≤ 380N

LT06 Material: CF8/CF8M
 Surface Finish: Satin/Mirror
 Glass Thickness: 12~17.5mm
 Fx Recommended value ≤ 1500N
 Fy Recommended value ≤ 380N



Side Fixing Balustrade Bracket

LT08 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm
Fx Recommended value ≤ 650N
Fy Recommended value ≤ 1200N

LT09 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm
Fx Recommended value ≤ 800N
Fy Recommended value ≤ 1200N

LT14 Material: 304/316L
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm
Fx Recommended value ≤ 500N
Fy Recommended value ≤ 550N

LT15 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 17~22mm
Fx Recommended value ≤ 700N
Fy Recommended value ≤ 1000N

HJTL04 Material: 304/316L
Surface Finish: Satin/Mirror
Glass Thickness: 12/17.52mm
Fx Recommended value ≤ 4000N
Fy Recommended value ≤ 4500N

HJTL06 Material: 304/316L
Surface Finish: Satin/Mirror
Glass Thickness: 12/17.52mm
Fx Recommended value ≤ 1500N

HJTL03 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm
Fx Recommended value ≤ 450N
Fy Recommended value ≤ 500N

LT17 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm
Fx Recommended value ≤ 900N
Fy Recommended value ≤ 1200N

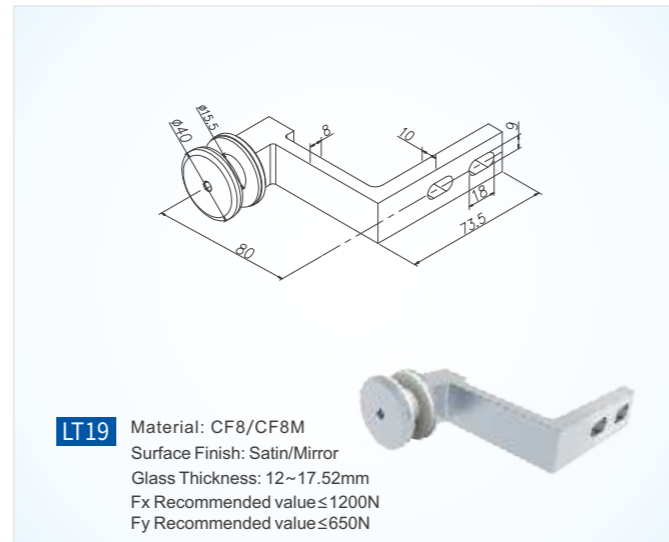
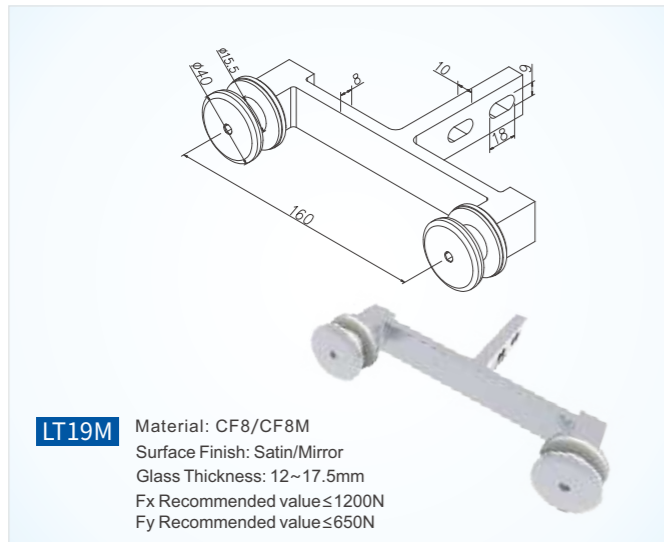
HJTL02M Material: 304/316L
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm
Fx Recommended value ≤ 560N
Fy Recommended value ≤ 350N

HJTL02 Material: 304/316L
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm
Fx Recommended value ≤ 560N
Fy Recommended value ≤ 350N

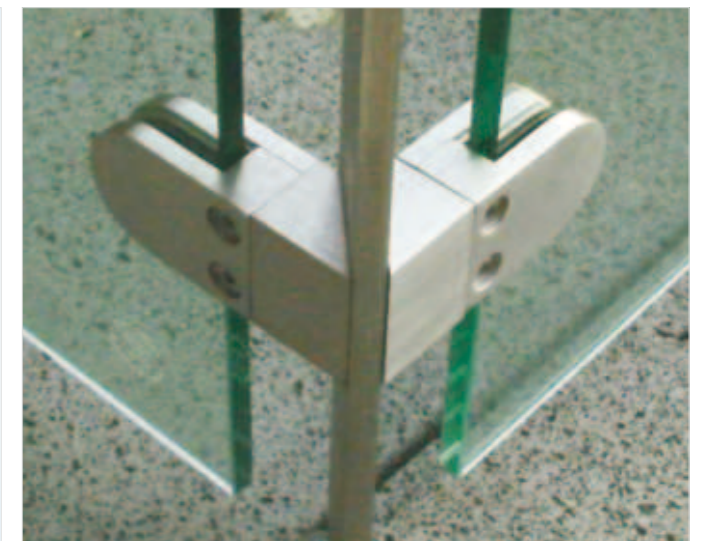
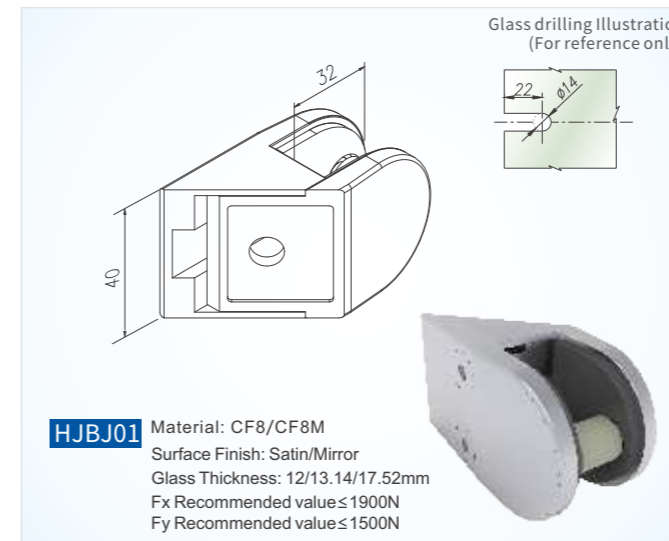
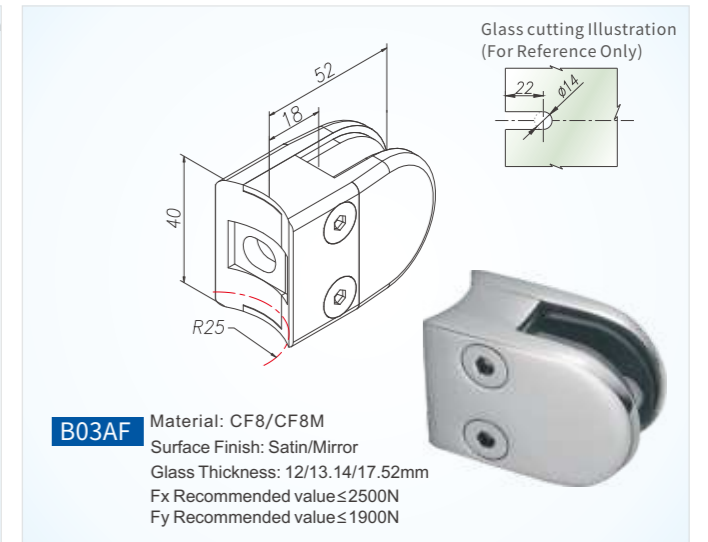
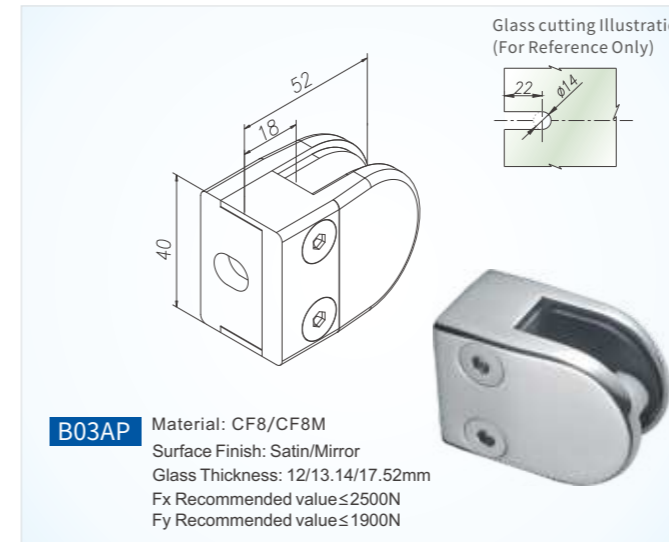
Side Fixing Balustrade Bracket



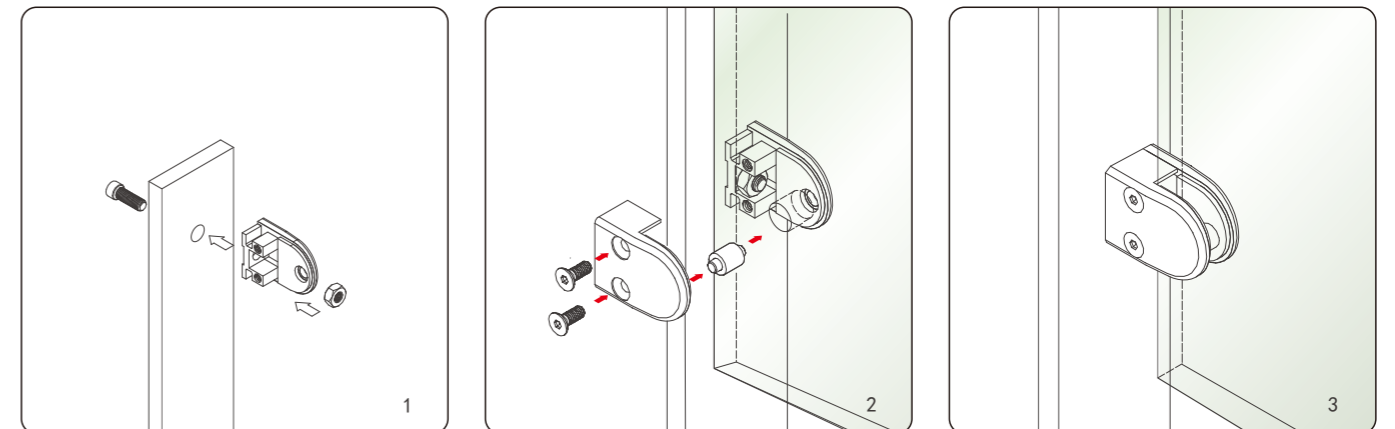
Side Fixing Balustrade Bracket



Glass Clamp



Installation Instruction
(For reference only)



Glass Clamp

B04AP Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 2800N
Fy Recommended value ≤ 2900N

B04AF Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 2800N
Fy Recommended value ≤ 2900N

B08AP Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 2800N
Fy Recommended value ≤ 1800N

B08AF Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 2800N
Fy Recommended value ≤ 1800N

B09AP Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 4000N
Fy Recommended value ≤ 4400N

B09AF Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 4000N
Fy Recommended value ≤ 4400N

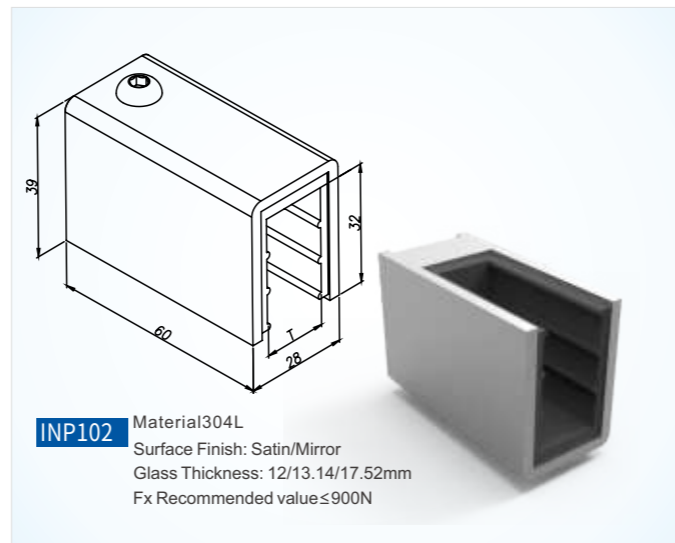
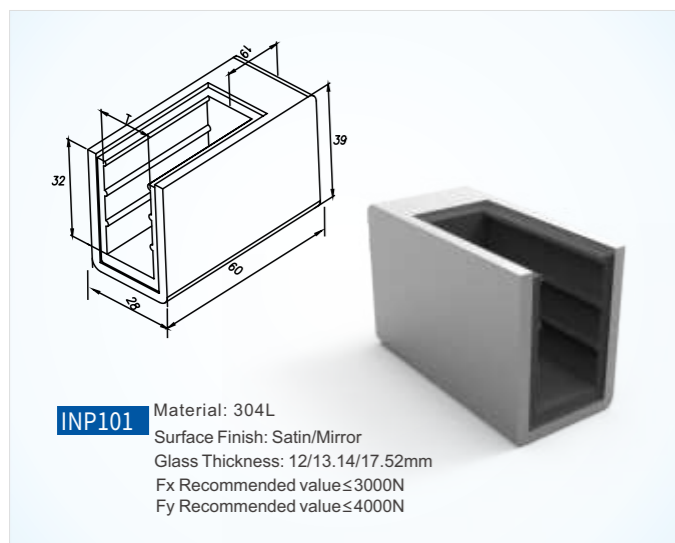
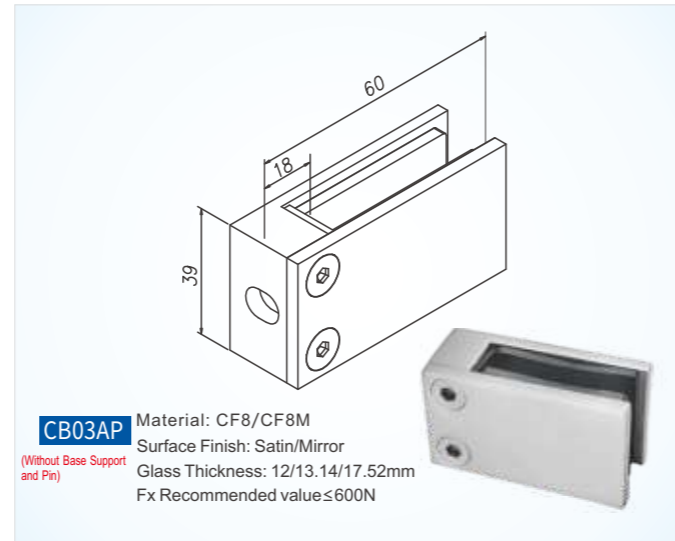
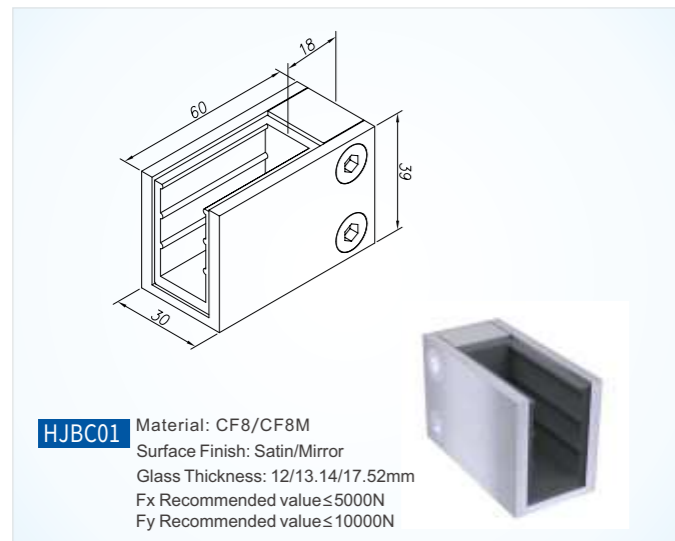
HJB02P Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 1900N
Fy Recommended value ≤ 1200N

HJB03P Material: 304/316L
Surface Finish: Satin/Mirror
Glass Thickness: 12/13.14/17.52mm
Fx Recommended value ≤ 1200N
Fy Recommended value ≤ 1000N

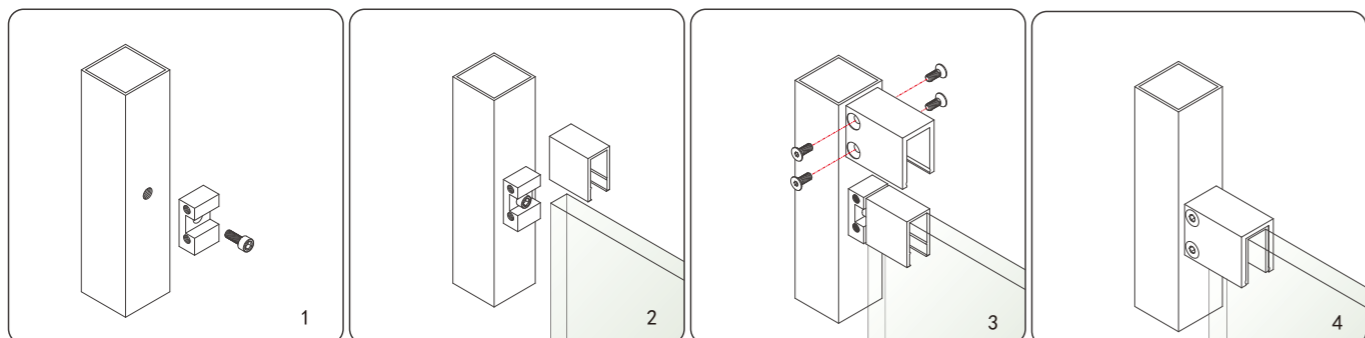


Glass Clamp

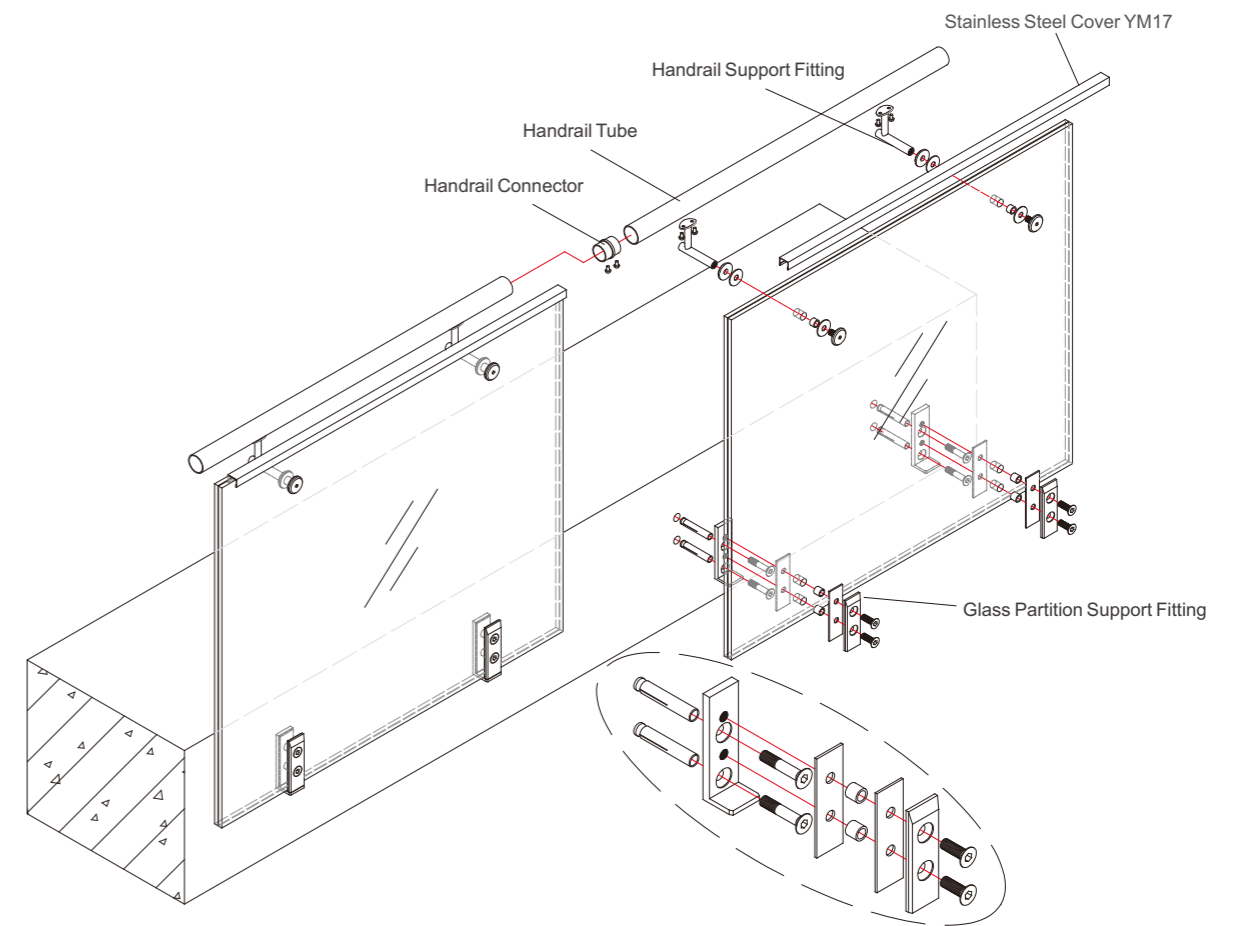
Glass Clamp



Supporting Type Clamp
Installation Instruction



Glass Support Fitting Series



Glass Partition Support Fitting

YM01 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~21.5mm

YM02 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~21.5mm

YM06 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm

YM10 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm

YM03 Material: 304/316
Surface Finish: Satin/Mirror
Glass Thickness: 12~21.5mm

YM03A Material: 304/316
Surface Finish: Satin/Mirror
Glass Thickness: 12~21.5mm

HCD09 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm

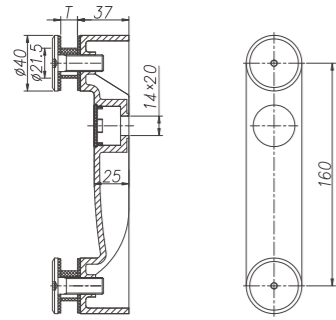
HCD10 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm

YM03B Material: 304/316
Surface Finish: Satin/Mirror
Glass Thickness: 12~21.5mm

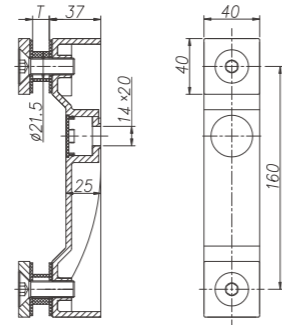
Step 1 **Step 2**
Step 3 **Step 4**
Step 5 **Step 6**



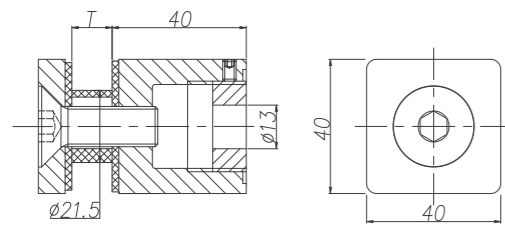
Glass Partition Support Fitting



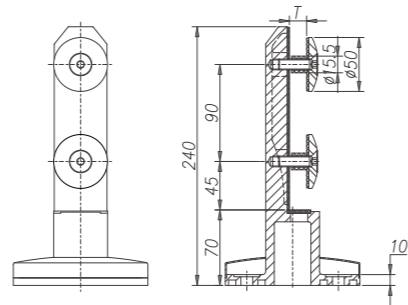
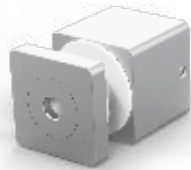
HCD03 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm



HCD04 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm



HCD05 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm

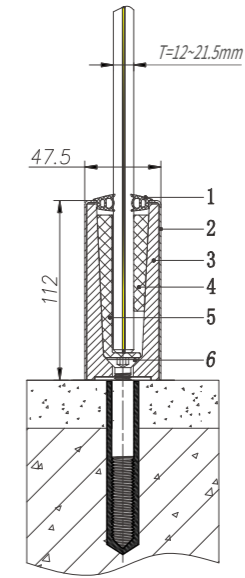


HCD06 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 12~17.5mm



Aluminum Alloy U Channel

YM21A



(Excluding anchor bolt)

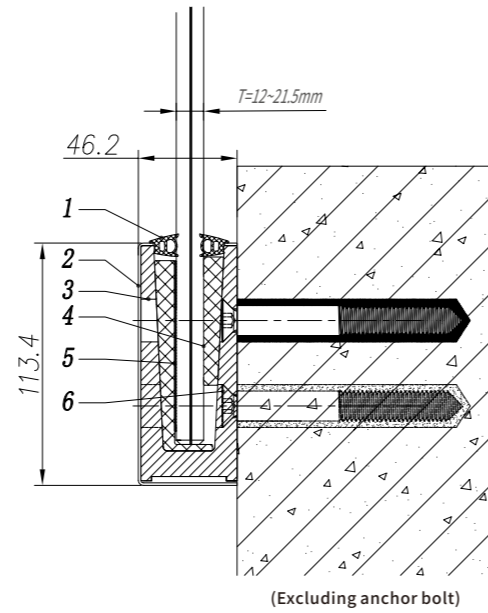
- | | | | | | | |
|--|---|---|---|---|--|--|
| | | | | | | |
| Gasket
(HJT01-1/-2/-3)
Material: EPDM | Cover Plate
(YM21A1-3A)
Material: 304/316L
Surface Finish: Satin/Mirror
Length: L:3300mm | U Channel
(YM21A1-1)
Material: 6063-T6
Glass Thickness: 12-21.5mm
Length: L:5700mm | Shim
(YM21-2)
Material: ABS
Quantity: 4 pcs/m | Shim
(YM21-1)
Material: ABS
Quantity: 4 pcs/m | Countersunk Screw Nut Rod
(CAM-D-10C)
Material: 304+Q345B
Quantity: 4 pcs/m
<small>Note: Anchor Adhesive Not Included, Please Contact Anchor Dept for Anchor Adhesive (CAM-500)</small> | End Cap
(YM21A1-4)
Material: 304/316L
Surface Finish: Satin/Mirror |

Installation Instruction



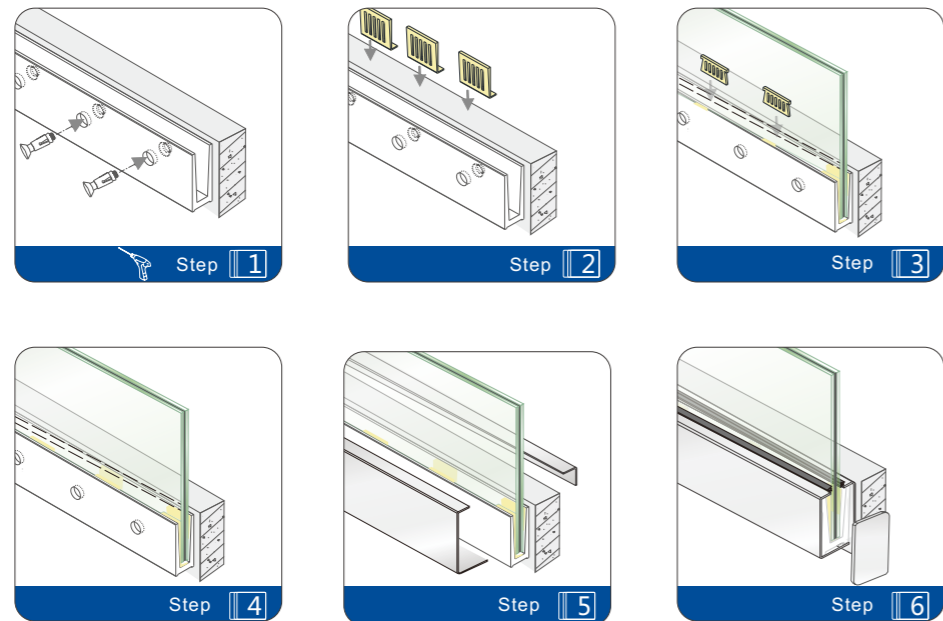
Aluminum Alloy U Channel

YM21B



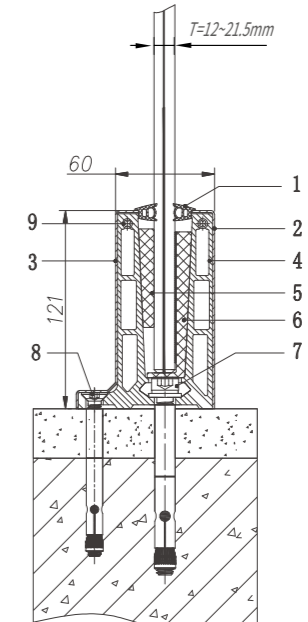
- 
Gasket
 (HJT01-1/2-3)
 Material: EPDM
- 
Cover Plate
 (YM21B1-3A)
 Material: 304/316L
 Surface Finish: Satin/Mirror
 Length: L:3000mm
- 
U channel
 (YM21B1-1)
 Material: 6063-T6
 Glass Thickness: 13-21.5mm
 Length: L:5700mm
- 
Shim
 (YM21-2)
 Material: ABS
 Quantity: 4 pcs/m
- 
Shim
 (YM21-1)
 Material: ABS
 Quantity: 4 pcs/m
- 
Countersunk Screw Nut Rod
 (CAM-D-10C)
 Material: 304+Q345B
 Quantity: 4 pcs/m
Note: Anchor Adhesive Not Included. Please Contact Anchor Dept for Anchor Adhesive (CAM-900)
- 
End cap
 (YM21A1-4)
 Material: 304/316L
 Surface Finish: Satin/Mirror


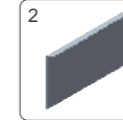
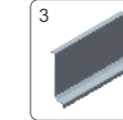
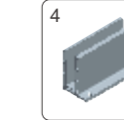
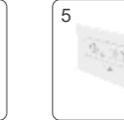
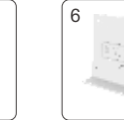
Installation Instruction




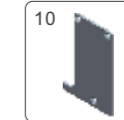



Aluminum Alloy U Channel

HCU01

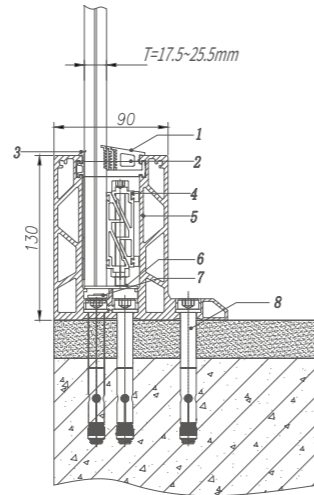


- 
Gasket
 (HJT01-1/2-3)
 Material: EPDM
- 
Back Cover Plate
 (HCU01A1-3)
 Material: 304/316L
 Surface Finish: Satin/Mirror
 Length: L:3000mm
- 
Front Cover Plate
 (HCU01A1-2)
 Material: 304/316L
 Surface Finish: Satin/Mirror
 Length: L:3000mm
- 
U-Channel Accessories
 (HCU01A1-1)
 Material: 6063-T6
 Glass Thickness: 13-21.5mm
 Length: L:5700mm
- 
Shim
 (YM21-2)
 Material: ABS
 Quantity: 4 pcs/m
- 
Shim
 (YM21-1)
 Material: ABS
 Quantity: 4 pcs/m

- 
Cylinder Head Expansion Bolt
 (SZP-Y4110)
 Material: Stainless Steel
 Quantity: 4 pcs/m
- 
Countersunk Socket Head Expansion Bolt
 (SZP-C-M8)
 Material: Stainless Steel
 Quantity: 4 pcs/m
- 
Self-tapping Screw
 (GB/T 848 ST5.5)
 Material: Stainless Steel
- 
End Cap
 (HCU01A1-4)
 Material: 304/316L
 Surface Finish: Satin/Mirror
- 
End Cap
 (HCU01A1-5)
 Material: 304/316L
 Surface Finish: Satin/Mirror

Aluminum Alloy U Channel

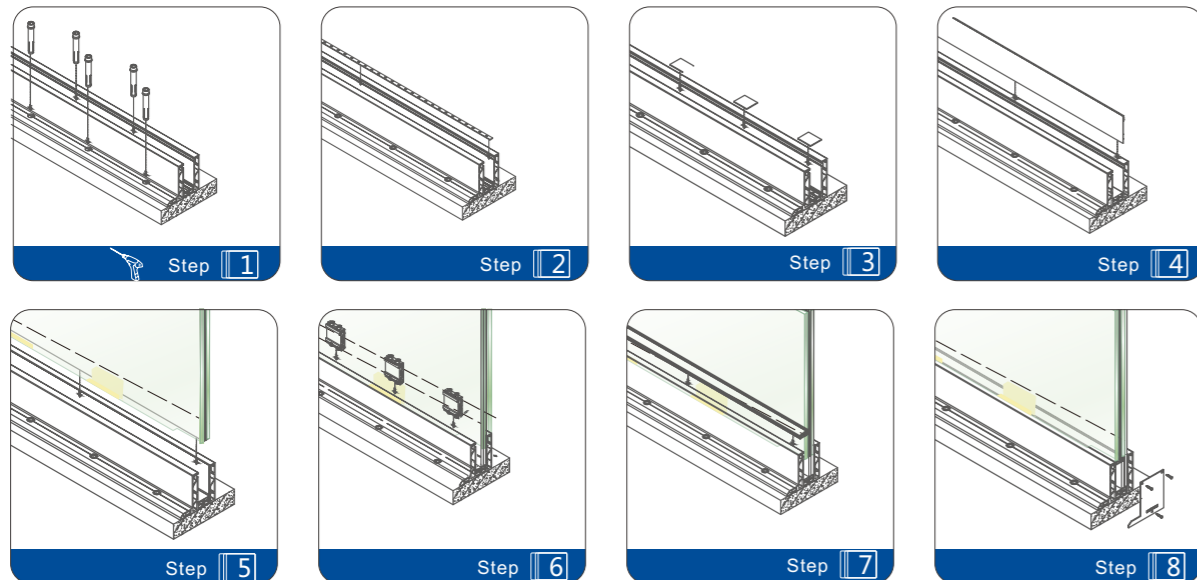
HCU03



Excluding anchor bolt

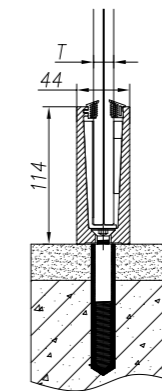
Gasket (HCU03-05) Material: EPDM	Notch connection plate (HCU03-06) Material: 304 Quantity: 5 pieces / M	Gasket (HCU03-04) Material: EPDM	Aluminum gasket (HCU03-02) Material: 6063-T6 Quantity: 5 pieces / M	U-channel assembly (HCU03-01) Material: 6063-T6 length: L ≤ 5700mm	Transparent gasket (HCU03-03) Material: PC Quantity: 5 pieces / M	LED strip (Not Included)	Cylindrical head expansion bolt (SZP-Y-M10)	End Cap (HCU03-07) Material: stainless steel

Installation Instruction



Aluminum Alloy U Channel

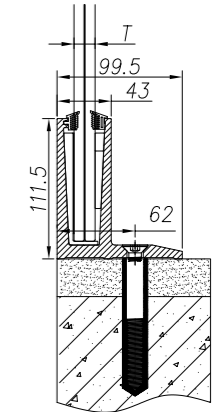
INS501



Main material: 6063-T6
Surface treatment: fine sand silver white anodizing treatment
Glass thickness: T: 12-17.5 mm
length: L ≤ 5700mm

(Anchor Bolts Not Included)

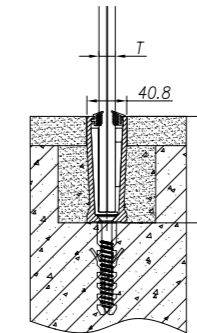
INS502



Main material: 6063-T6
Surface treatment: fine sand silver white anodizing treatment
Glass thickness: T: 12-17.5 mm
length: L ≤ 5700mm

(Anchor Bolts Not Included)

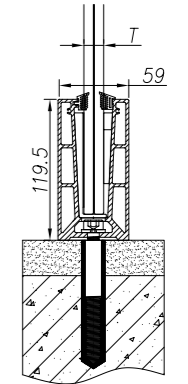
INS503



Main material: 6063-T6
Surface treatment: fine sand silver white anodizing treatment
Glass thickness: T: 12-17.5 mm
length: L ≤ 5700mm

(Anchor Bolts Not Included)

INS504



Main material: 6063-T6
Surface treatment: fine sand silver white anodizing treatment
Glass thickness: T: 12-17.5 mm
length: L ≤ 5700mm

(Anchor Bolts Not Included)

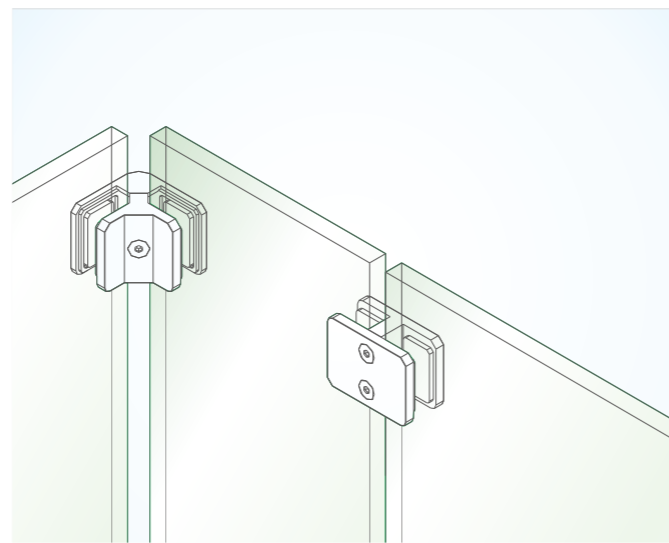


Glass Connector

YM15 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 8~12mm

YM16 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 8~12mm

YM17 Material: 304/316
Surface Finish: Satin/Mirror
Glass Thickness: Customized by actual glass thickness



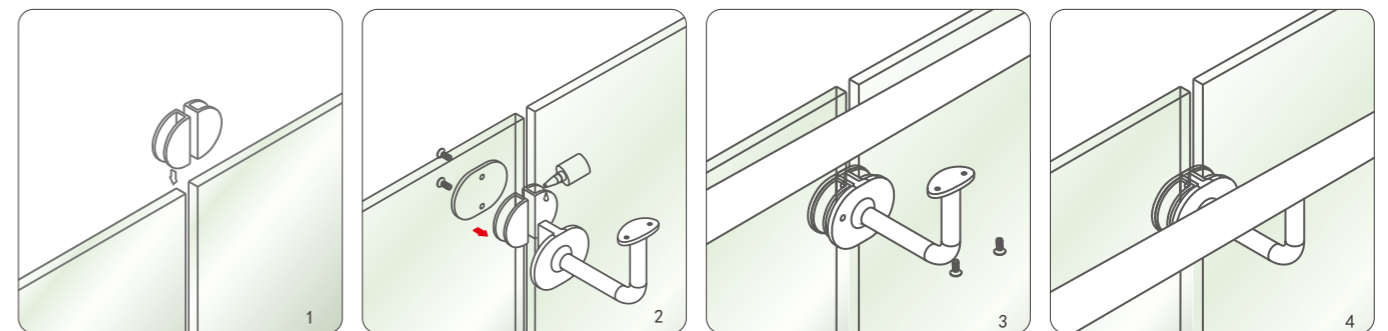
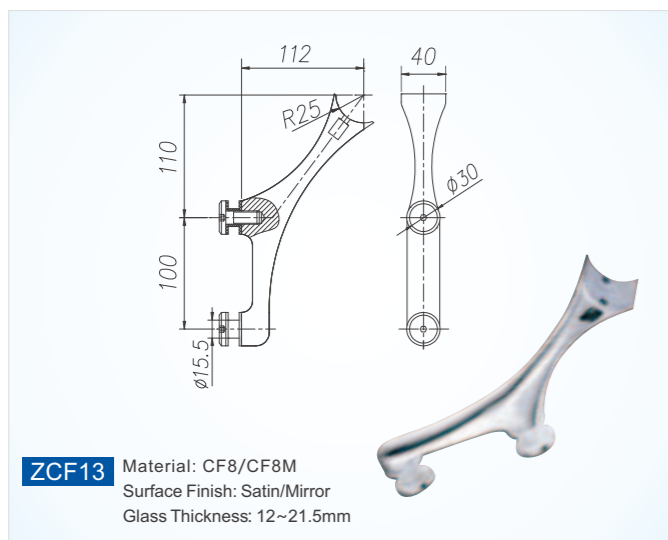
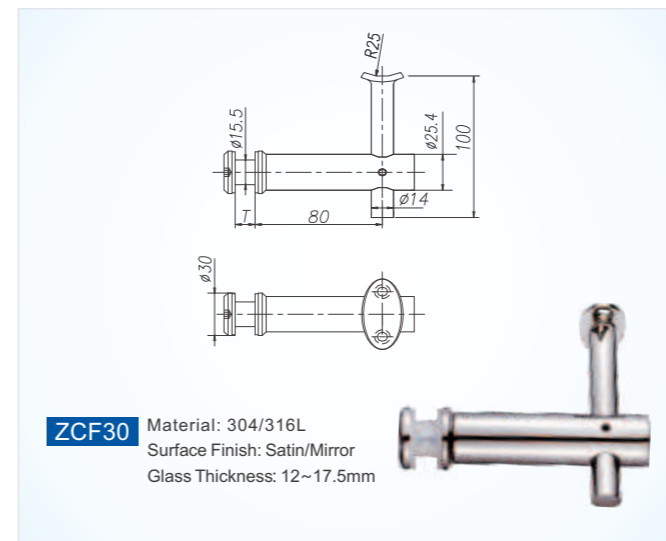
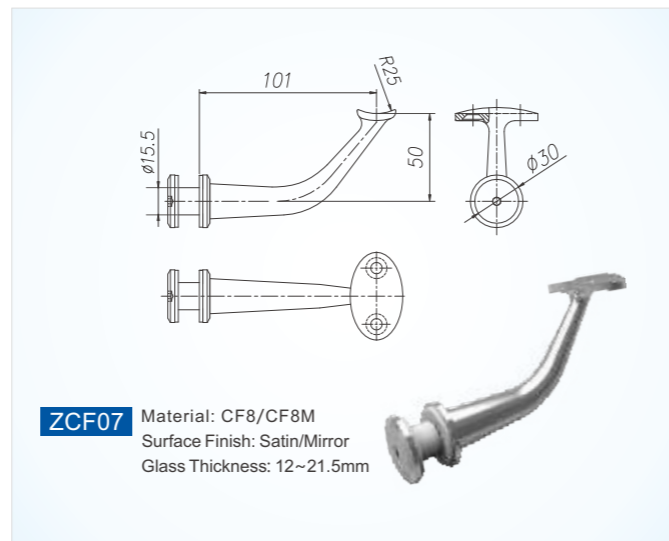
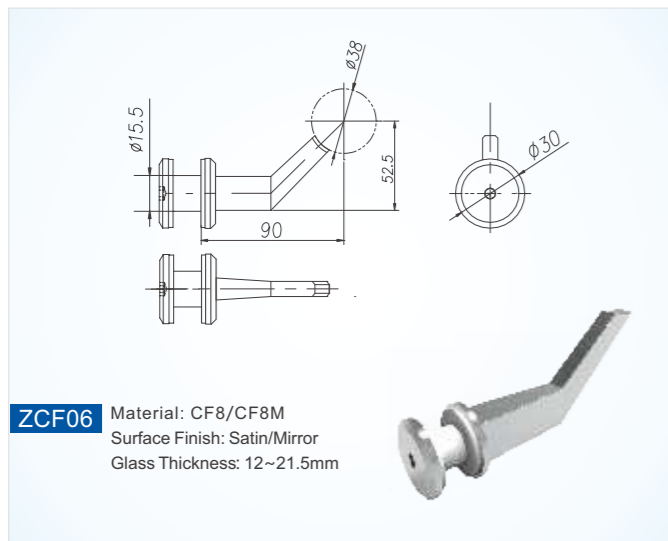
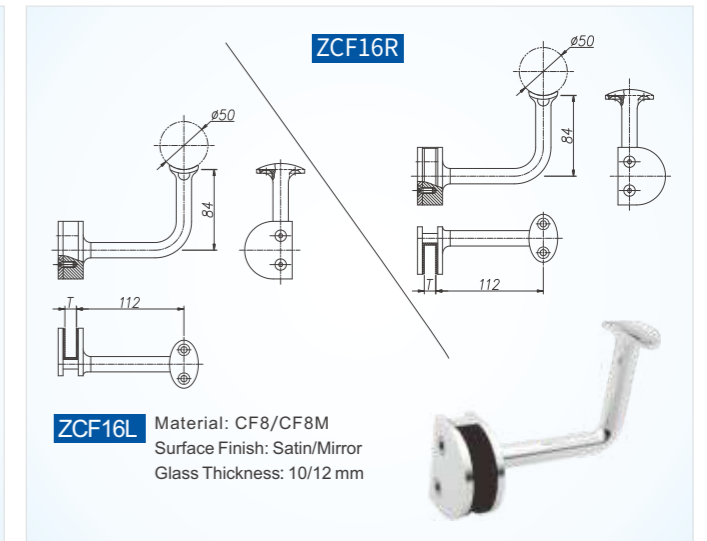
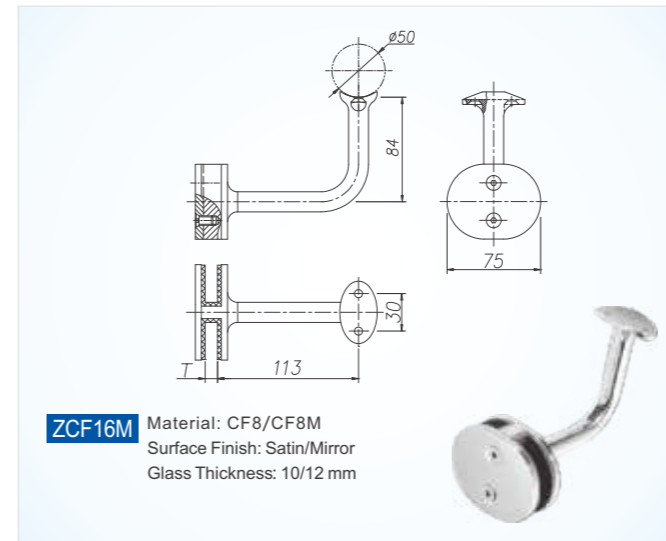
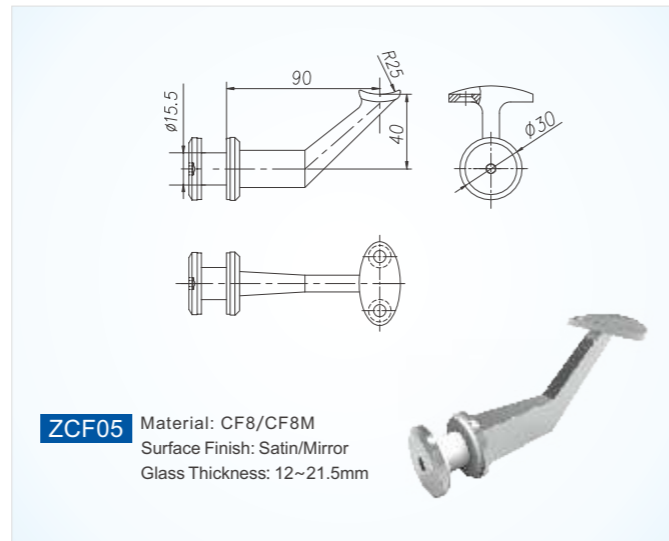
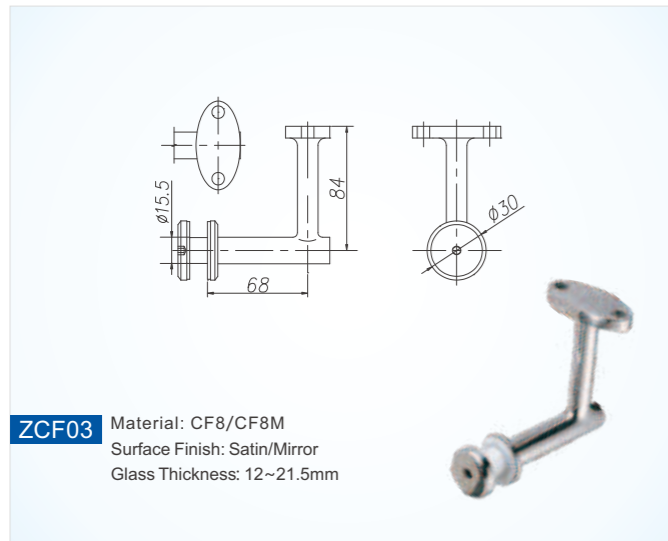
HCL01 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 13.5~17.5mm

HCL02 Material: CF8/CF8M
Surface Finish: Satin/Mirror
Glass Thickness: 13.5~17.5mm

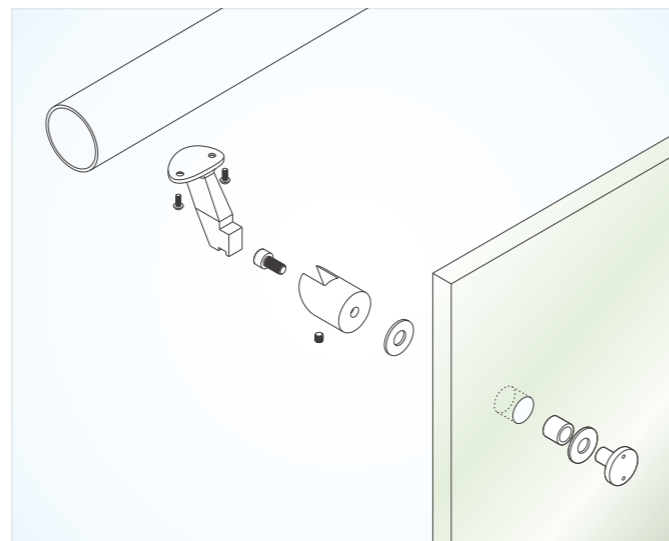
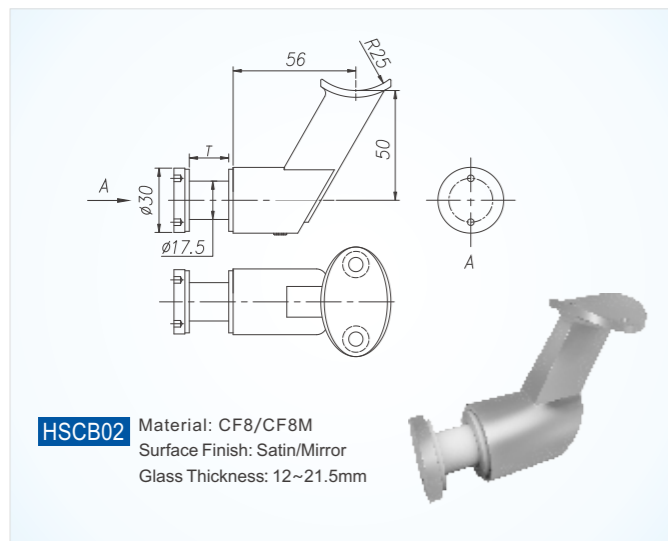
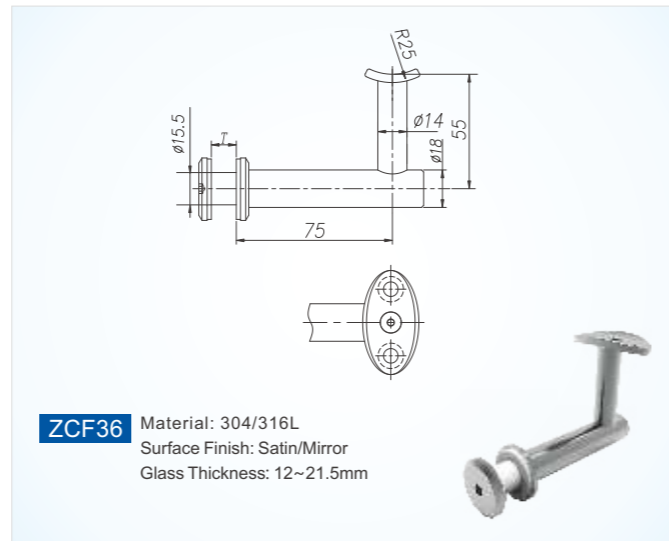
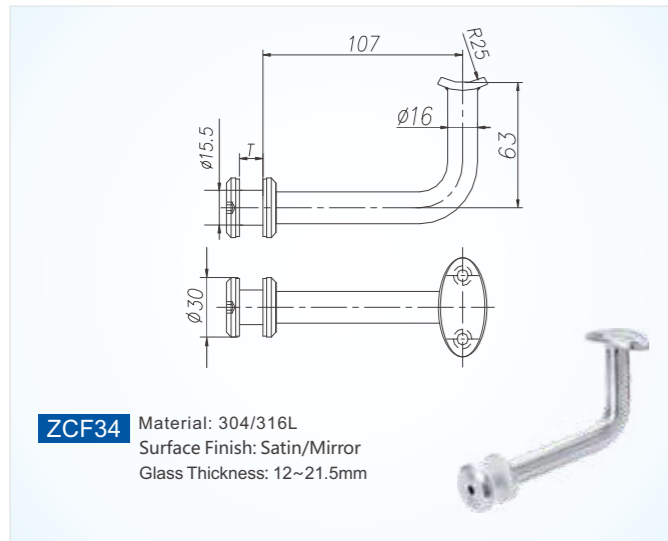
Handrail Fitting Series



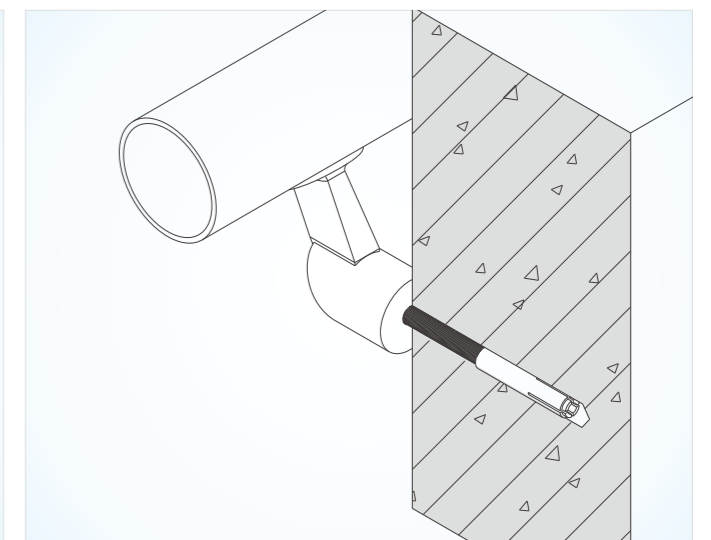
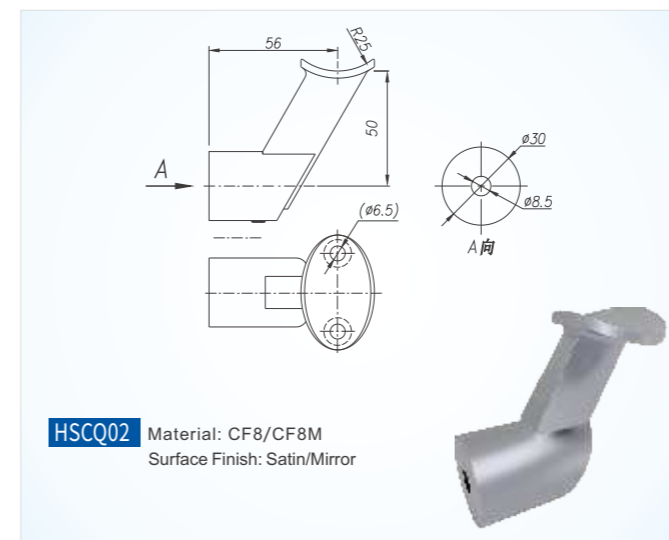
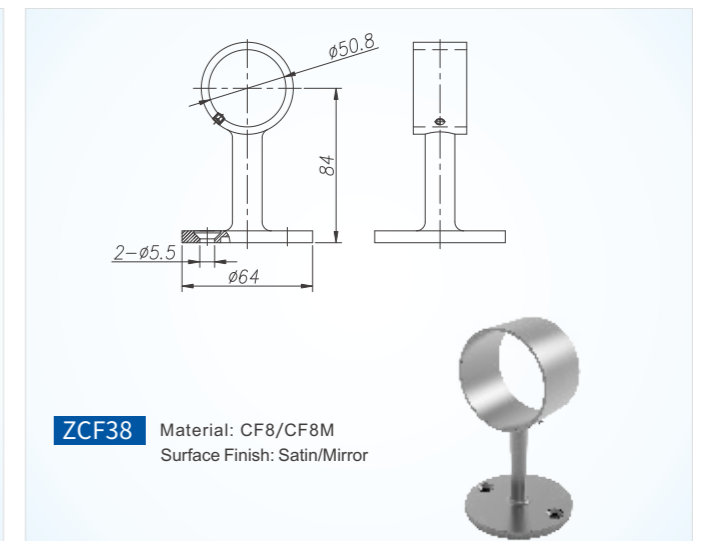
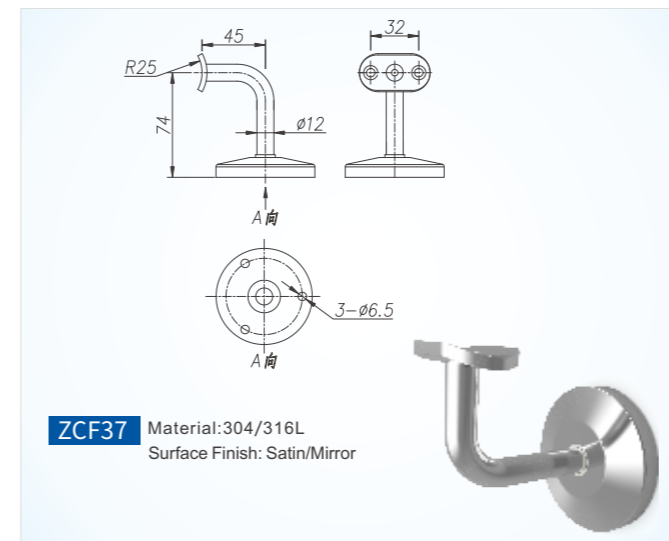
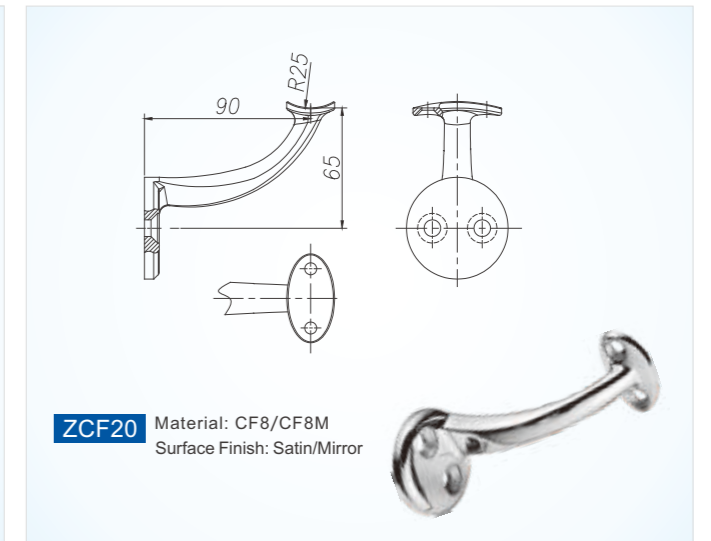
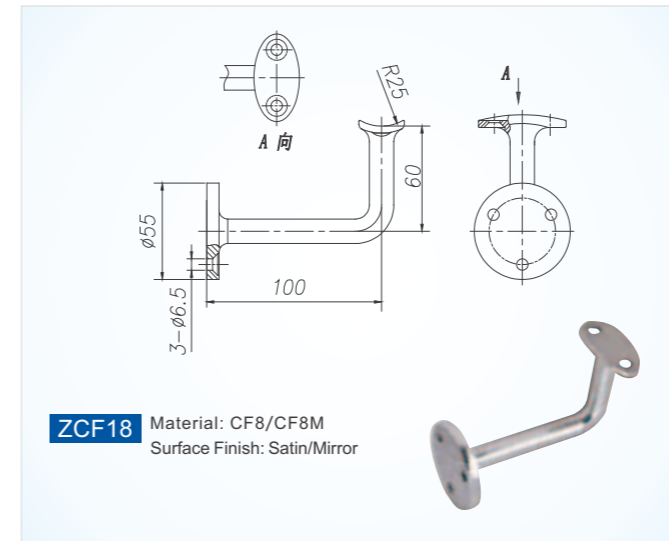
Handrail Supporting (Glass)



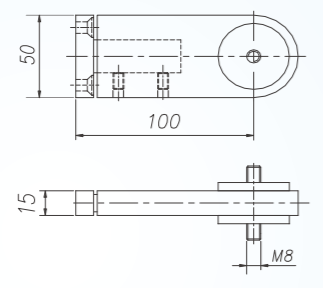
Handrail Supporting (Glass)




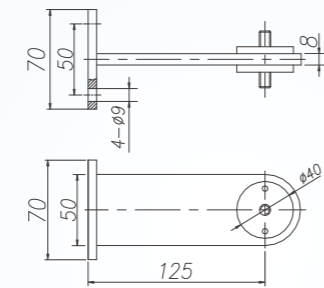
Handrail Supporting (Wall)




Bump Rail Accessories



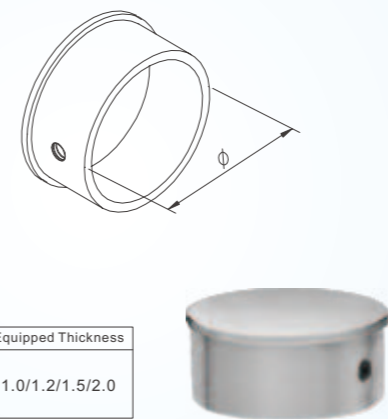
ZCF28 Material: CF8/CF8M
Surface Finish: Satin/Mirror

ZCF29 Material: 304/316L
Surface Finish: Satin/Mirror

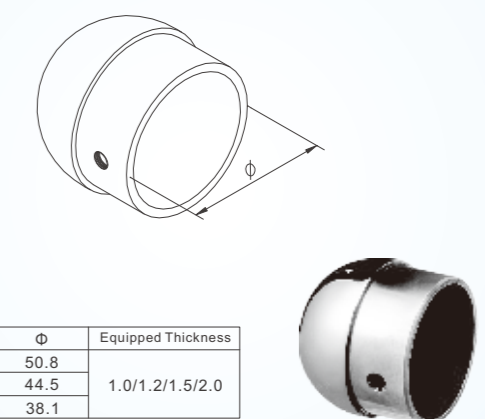



End Cap



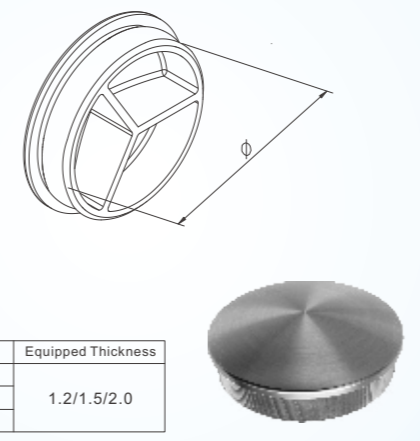
LJK01

Φ	Equipped Thickness
50.8	1.0/1.2/1.5/2.0
44.5	
38.1	



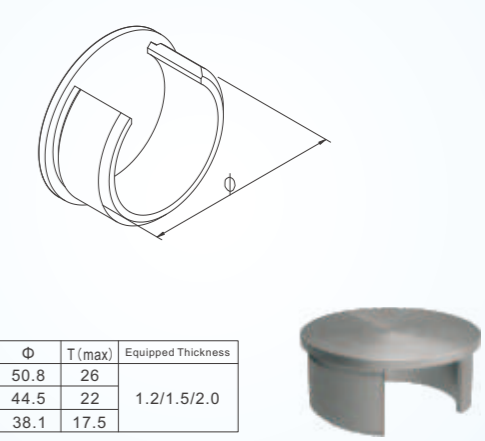
LJK02

Φ	Equipped Thickness
50.8	1.0/1.2/1.5/2.0
44.5	
38.1	



LJK05

Φ	Equipped Thickness
50.8	1.2/1.5/2.0
44.5	
38.1	

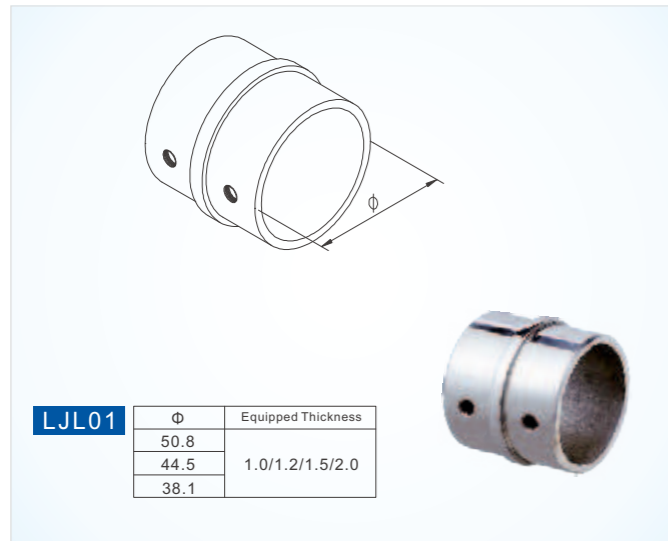


LJK06

Φ	T (max)	Equipped Thickness
50.8	26	1.2/1.5/2.0
44.5	22	
38.1	17.5	

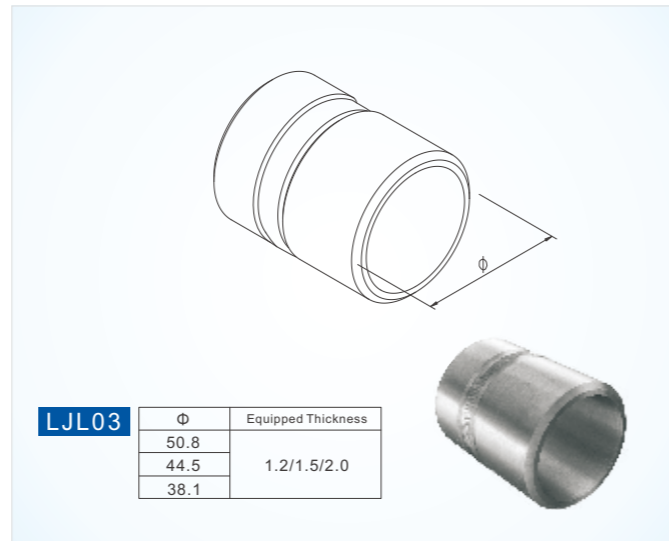


Connector



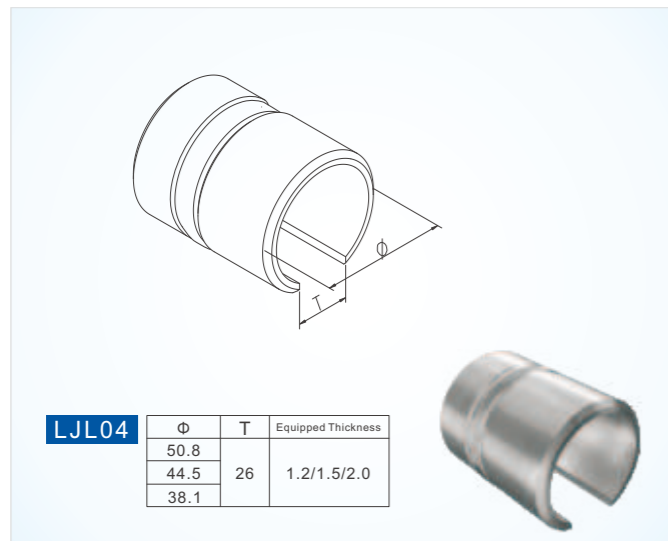
LJL01

Φ	Equipped Thickness
50.8	1.0/1.2/1.5/2.0
44.5	
38.1	



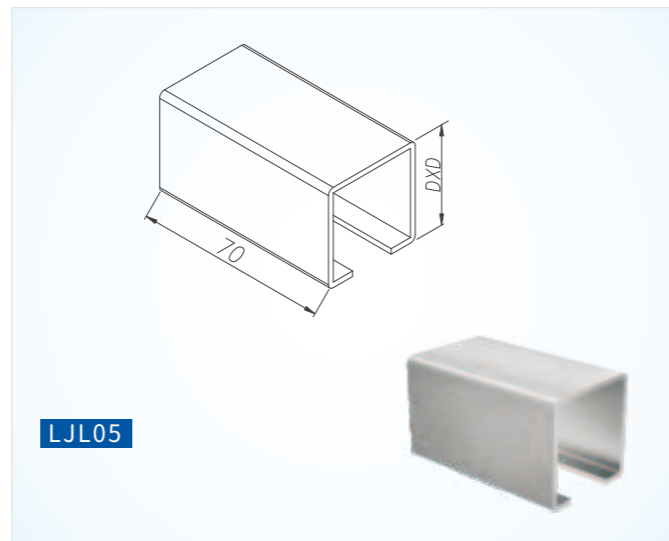
LJL03

Φ	Equipped Thickness
50.8	1.2/1.5/2.0
44.5	
38.1	

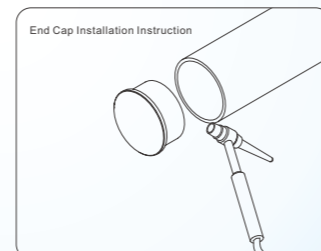
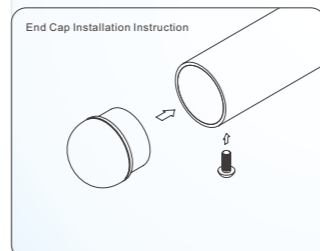
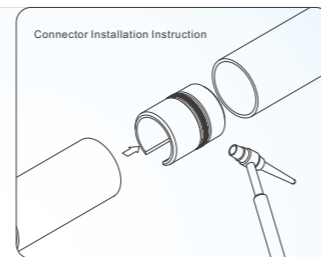
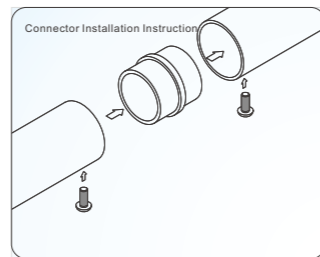


LJL04

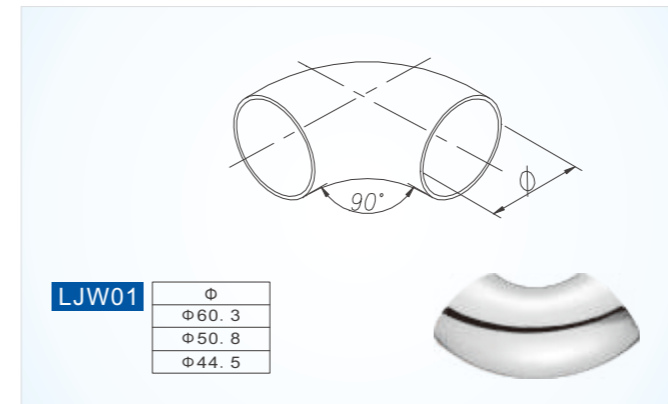
Φ	T	Equipped Thickness
50.8	26	1.2/1.5/2.0
44.5		
38.1		



LJL05

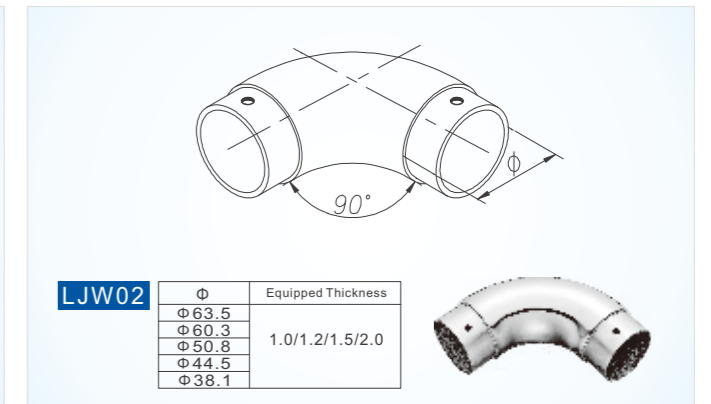


Elbow



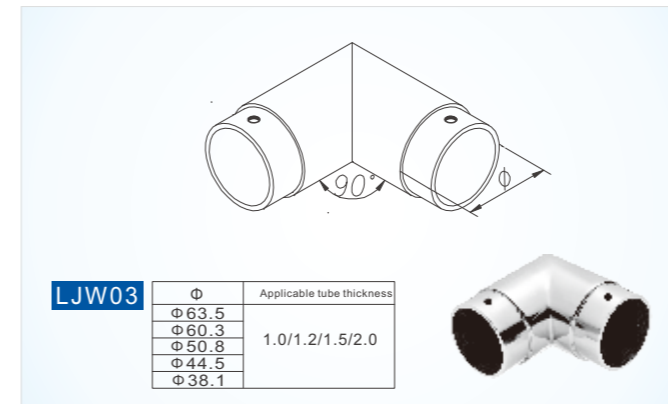
LJW01

Φ
Φ60.3
Φ50.8
Φ44.5



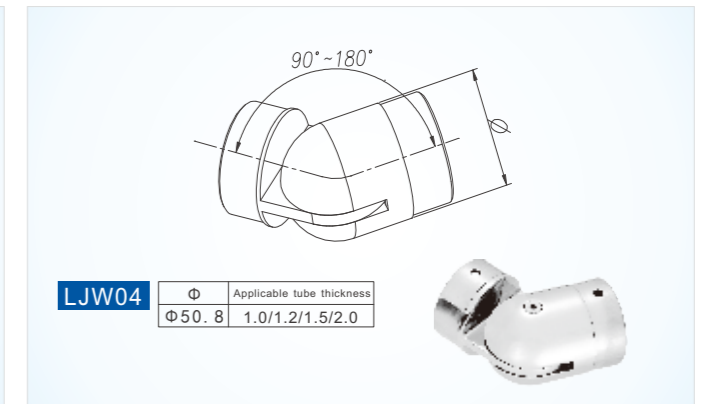
LJW02

Φ	Equipped Thickness
Φ63.5	1.0/1.2/1.5/2.0
Φ60.3	
Φ50.8	
Φ44.5	
Φ38.1	



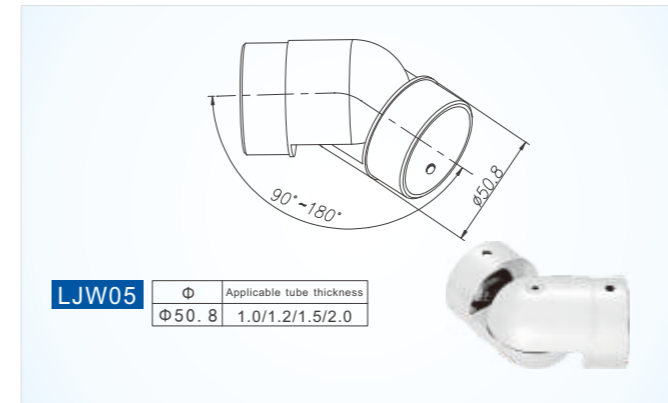
LJW03

Φ	Applicable tube thickness
Φ63.5	1.0/1.2/1.5/2.0
Φ60.3	
Φ50.8	
Φ44.5	
Φ38.1	



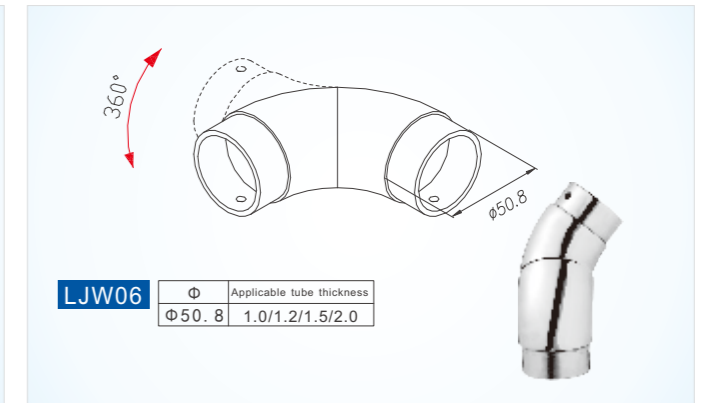
LJW04

Φ	Applicable tube thickness
Φ50.8	1.0/1.2/1.5/2.0



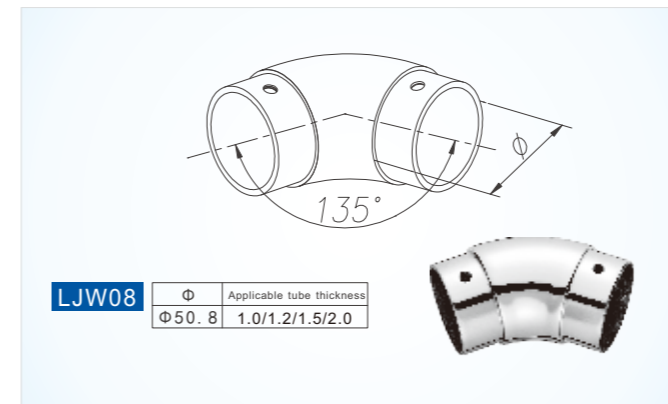
LJW05

Φ	Applicable tube thickness
Φ50.8	1.0/1.2/1.5/2.0



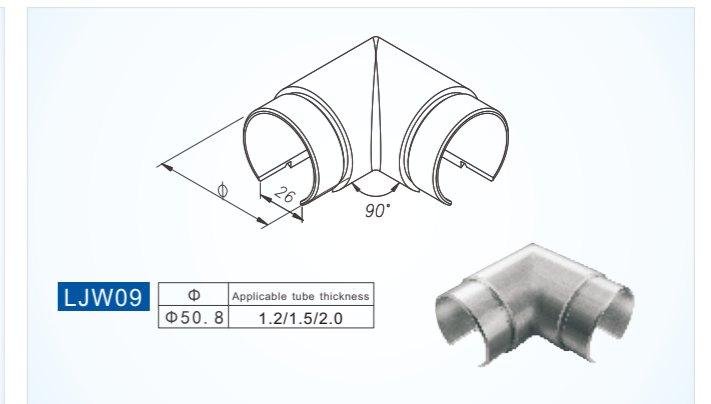
LJW06

Φ	Applicable tube thickness
Φ50.8	1.0/1.2/1.5/2.0



LJW08

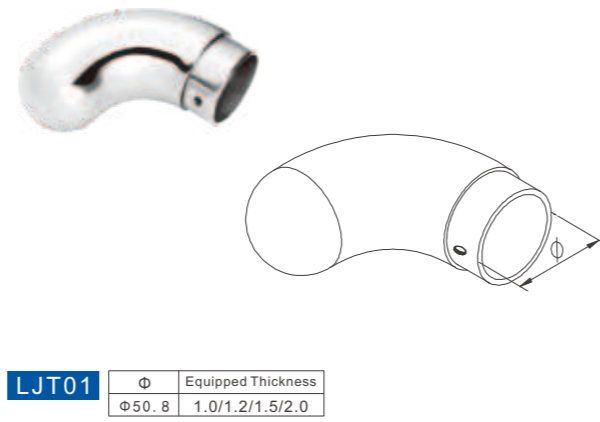
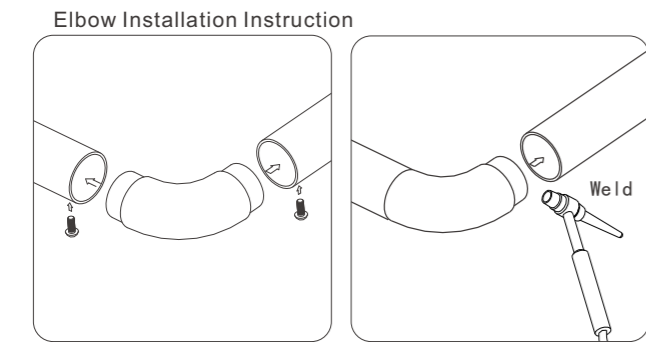
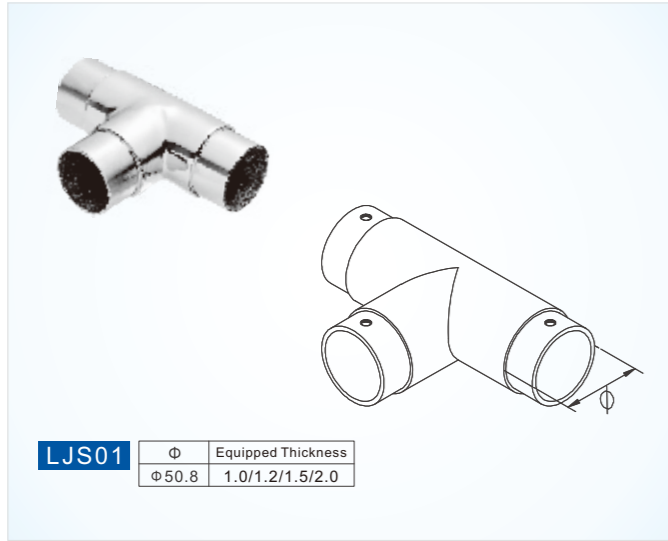
Φ	Applicable tube thickness
Φ50.8	1.0/1.2/1.5/2.0



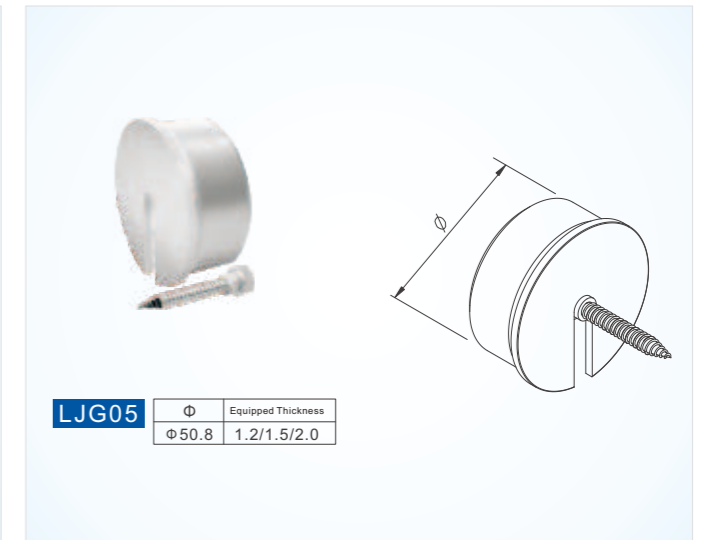
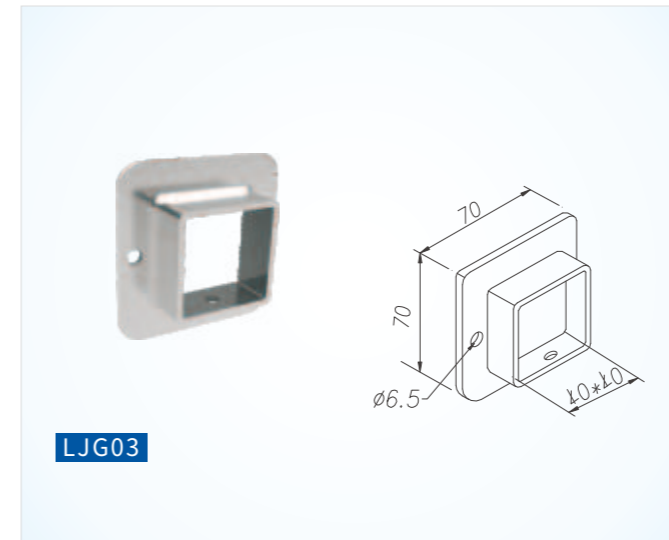
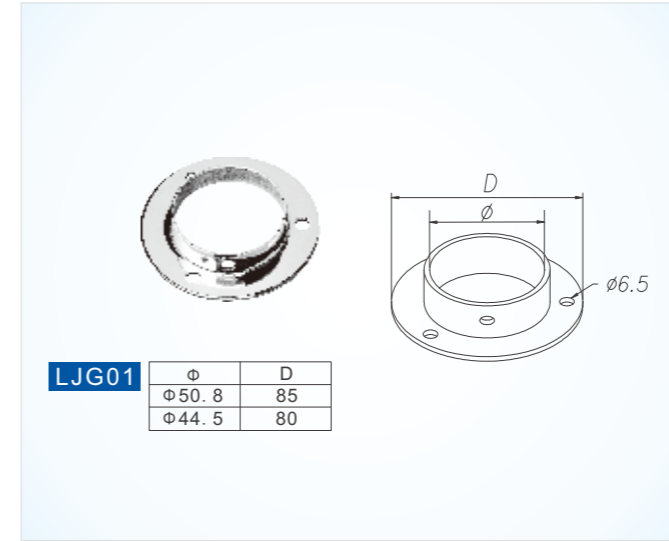
LJW09

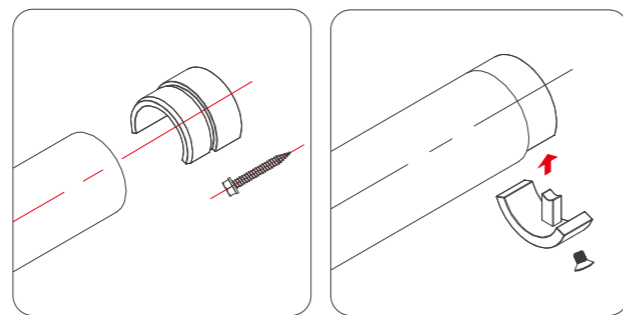
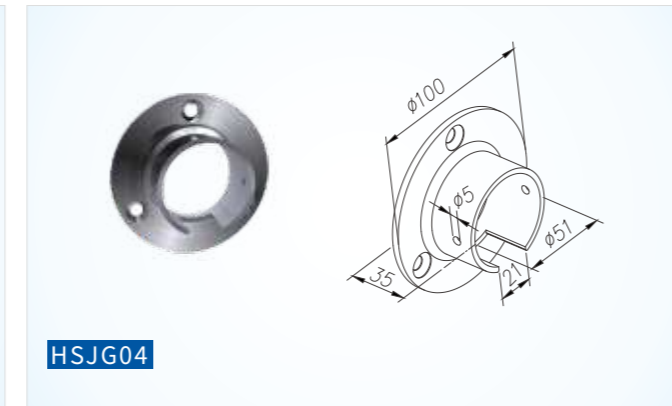
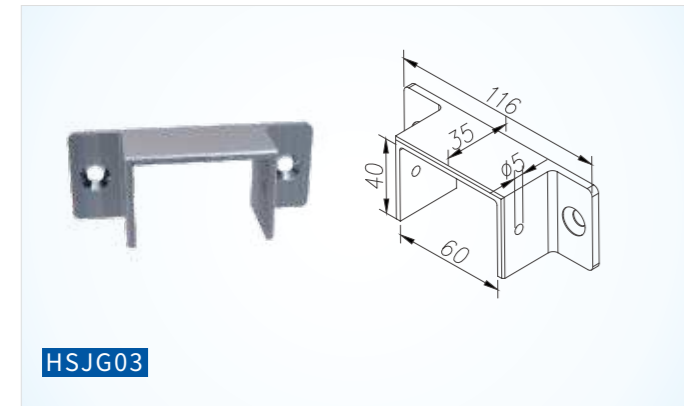
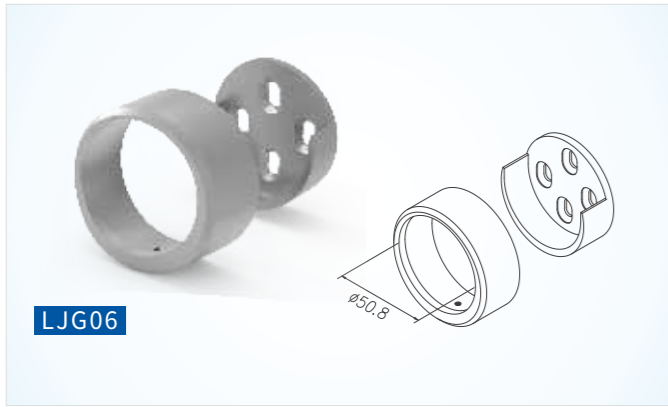
Φ	Applicable tube thickness
Φ50.8	1.2/1.5/2.0

Elbow

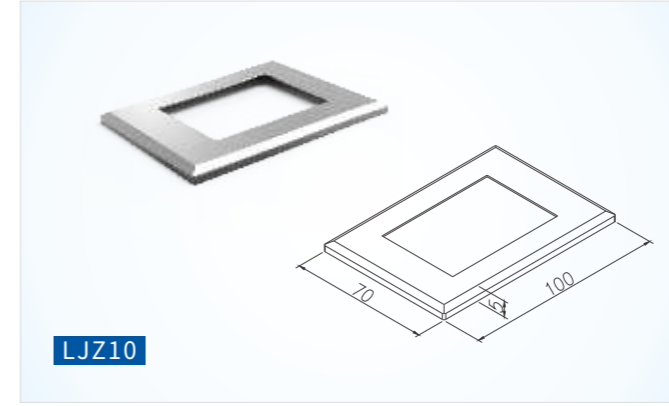
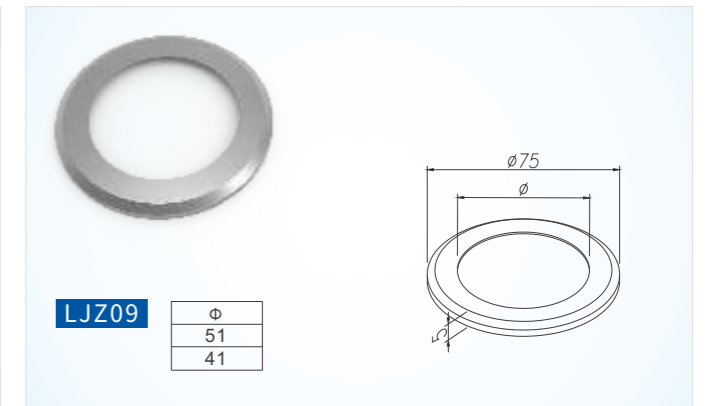
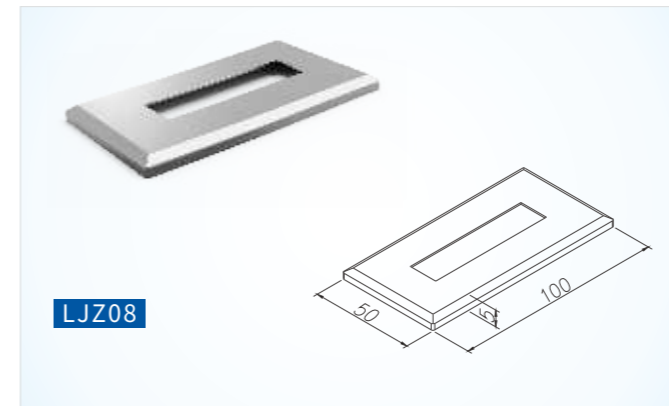
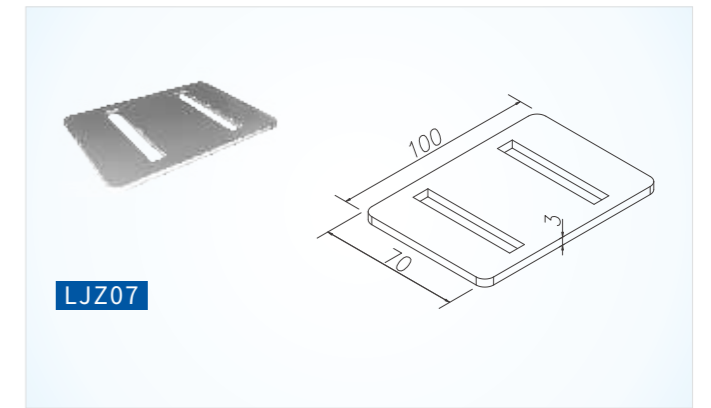
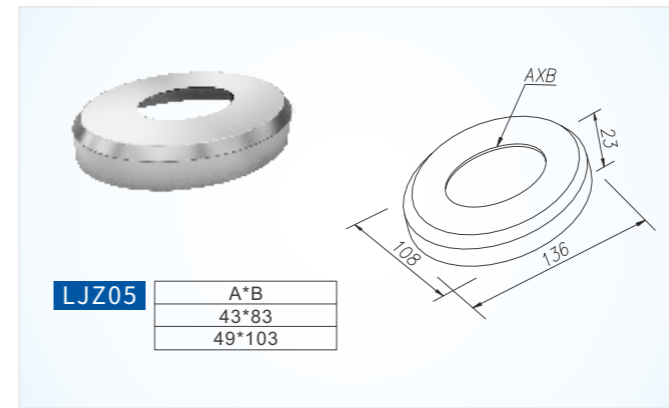
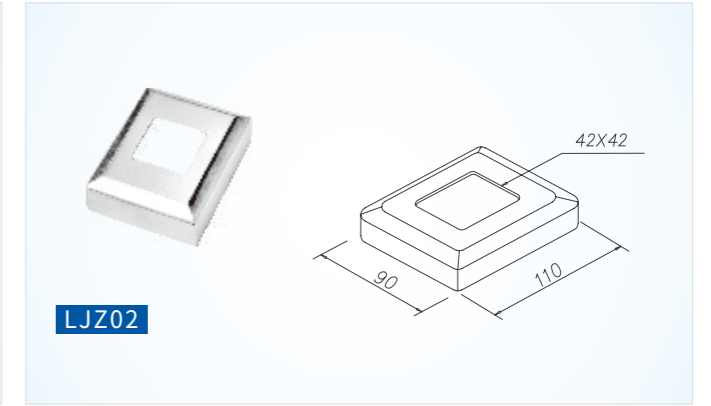
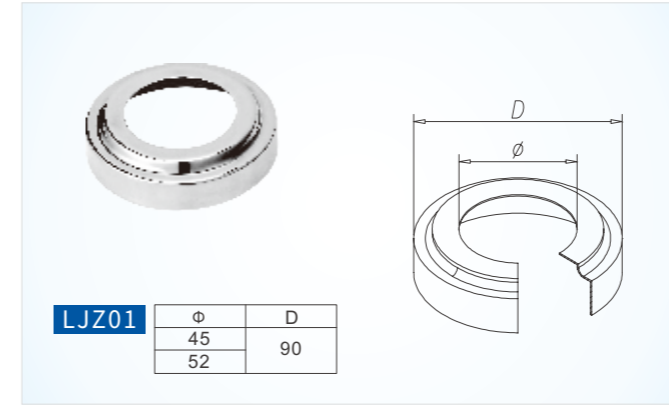


Base Plate





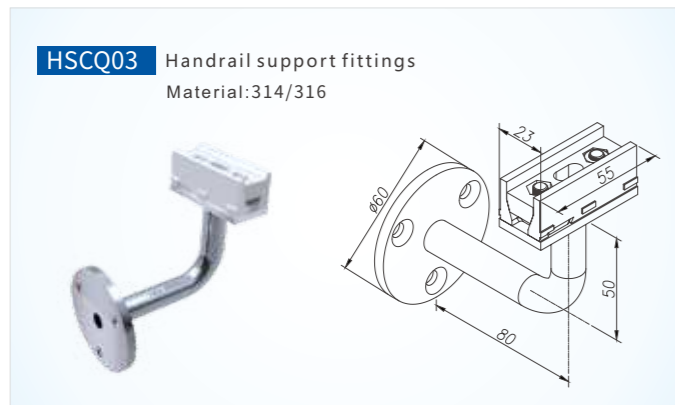
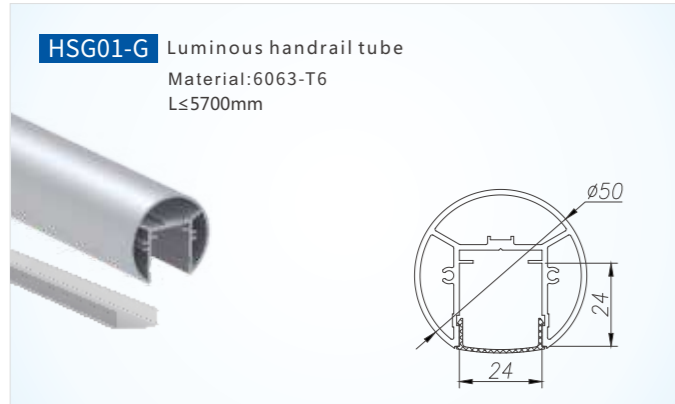
Cover Plate



Base Plate and Cover Plate Installation Instruction



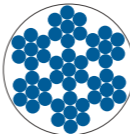
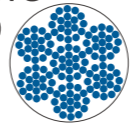
Luminous handrail



Micro Cable Accessories



Mechanical Performance of Stainless Steel Wire Rope

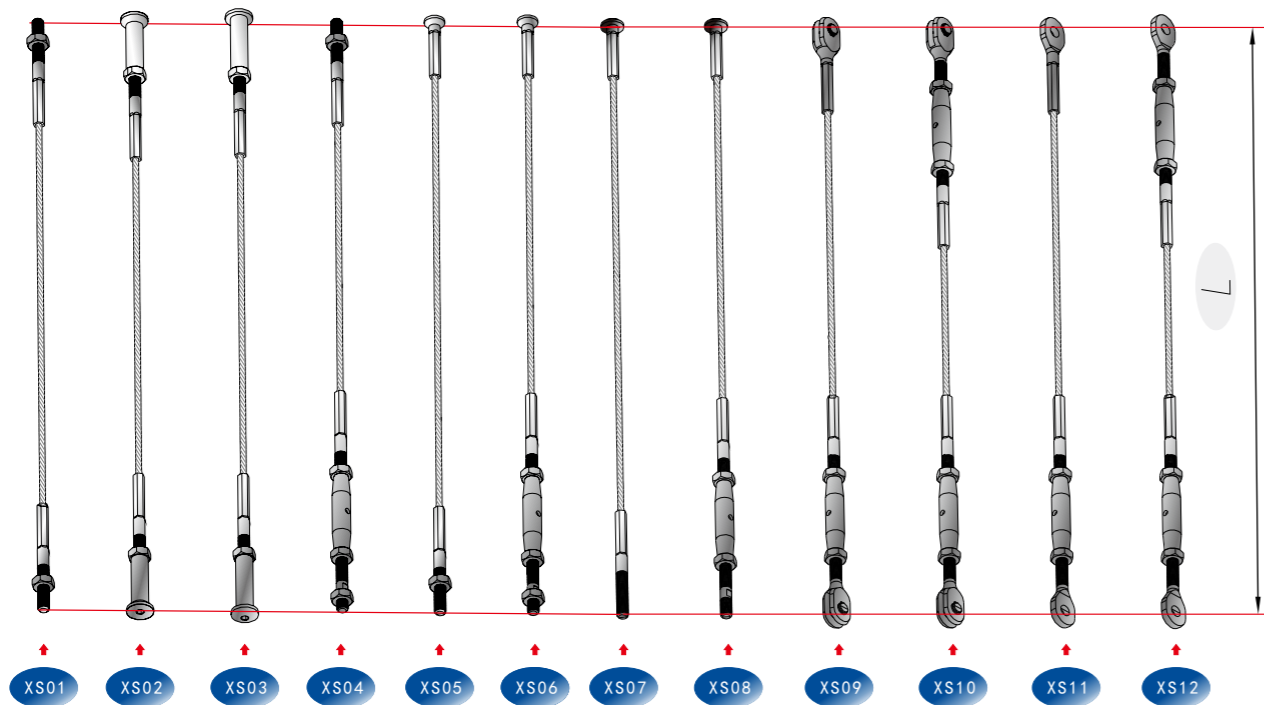
Structure	Nominal Diameter	Minimum Breaking Tension (KN)	Reference Weight (kg/100 m)
6×7+1WS (7×7) 	φ3.0	6.37	3.70
	φ4.0	9.51	6.50
	φ5.0	14.7	10.5
	φ6.0	18.6	15.1
6×19+1WS (7×19) 	φ4.0	10.7	6.7
	φ5.0	17.4	10.5
	φ6.0	23.5	14.9

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

Micro Cable Accessories



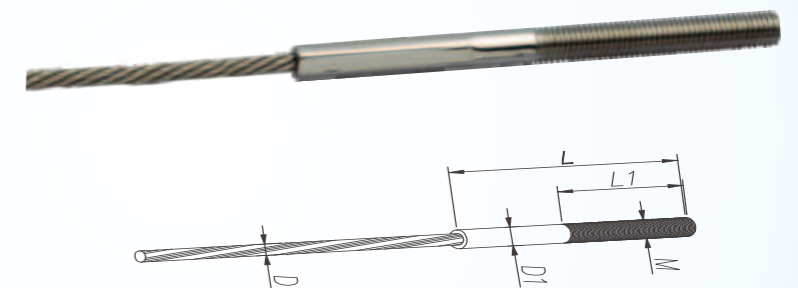
Illustration of Micro Cable Assembly



Anchor

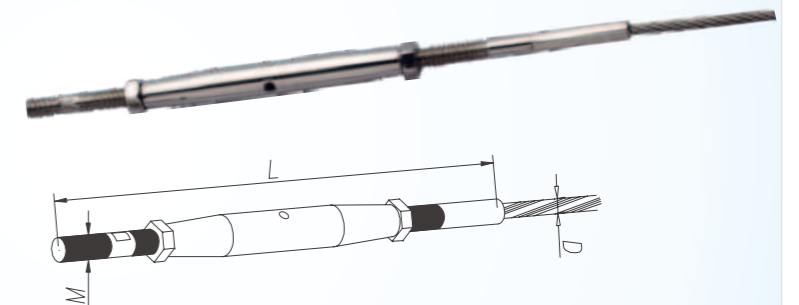
A-W

D	D1	L	L1	M
Ø3	Ø6	63	28	M5
Ø4	Ø7.5	79	33	M6
Ø5	Ø8	92	39	M8
Ø6	Ø10	111	45	M10



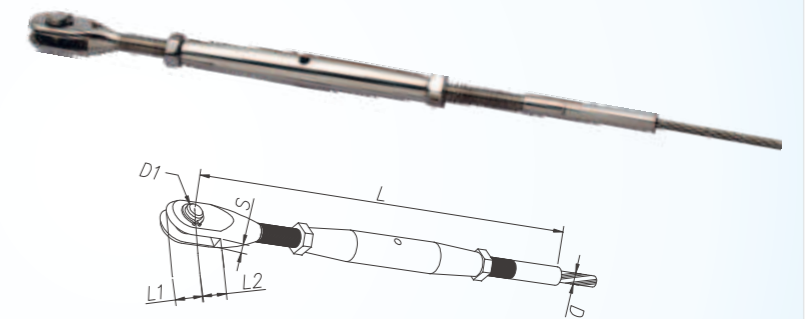
A01-W Adjustable Cable Anchor

D	L mm		M
	min	max	
Ø3	121	151	M5
Ø4	149	190	M6
Ø5	171	215	M8
Ø6	205	250	M10



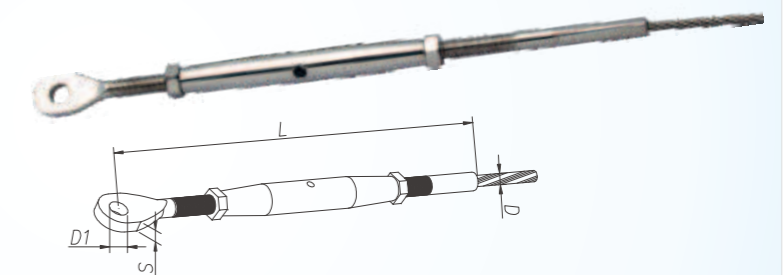
A05-W Adjustable Cable Anchor

D	L mm		D1	L1	L2	S
	min	max				
Ø3	126	156	Ø5	9.5	12	3.5
Ø4	151	191	Ø6	11	14	4.5
Ø5	172	212	Ø8	12.8	16	5.5
Ø6	206	256	Ø10	15	19	6.5



A07-W Adjustable Cable Anchor

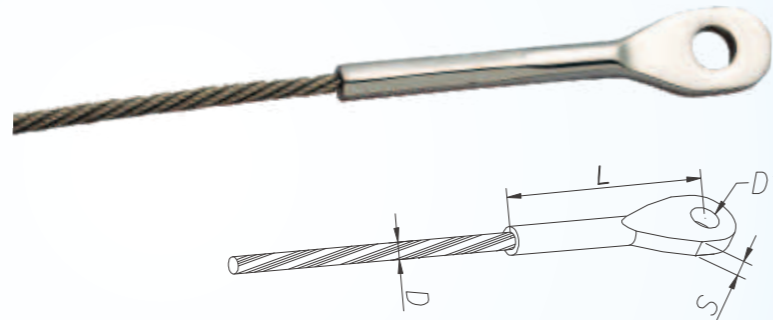
D	L mm		D1	S
	min	max		
Ø3	126	156	Ø5.5	3
Ø4	151	191	Ø6.5	4
Ø5	172	212	Ø8.5	5
Ø6	206	256	Ø10.5	6



Cable End

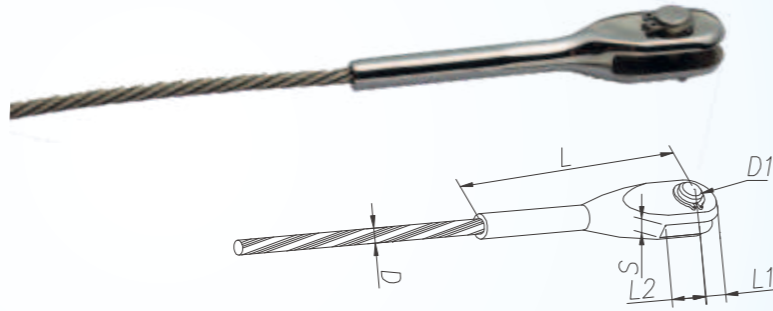
D01-W

D	D1	L	S
Ø3	05.5	57	3
Ø4	06.5	62	4
Ø5	08.5	75	5
Ø6	010.5	86	6



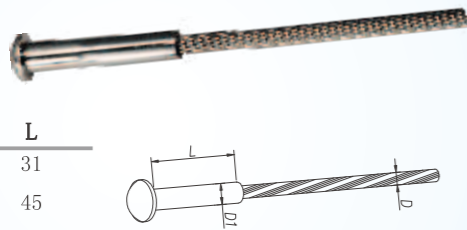
B02-W

D	D1	L	L1	L2	S
Ø3	05	57	9.5	12	3.5
Ø4	06	62	11	14	4.5
Ø5	08	75	12.8	16	5.5
Ø6	010	86	15	19	6.5



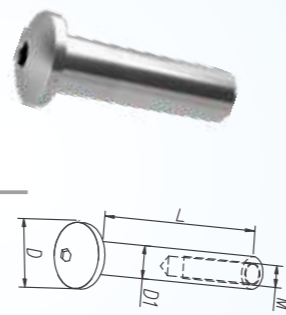
G-W

D	D1	L
Ø3	06	31
Ø4	08	45
Ø5	08	45
Ø6	010	54



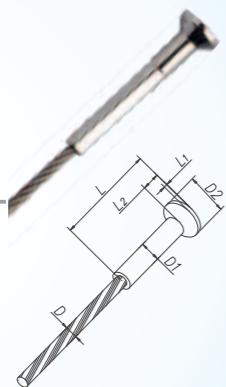
LJ-6

D	D1	L	M
Ø12	07	31	M5
Ø14	08	35.4	M6
Ø18	010	44.2	M8
Ø24	015	56.3	M10



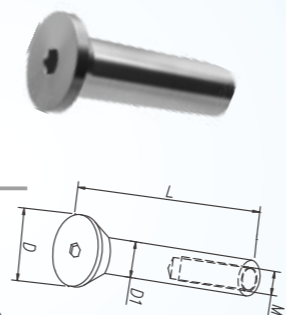
T-W

D	D1	D2	L	L1	L2
Ø3	06	012	35	4	1.5
Ø4	08	014	50	5	2
Ø5	08	014	50	5	2
Ø6	010	018	60	6	2.5



LJ-7

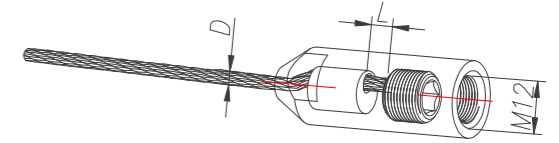
D	D1	L	M
Ø12	07	35	M5
Ø14	08	40	M6
Ø18	010	50	M8
Ø24	015	56	M10



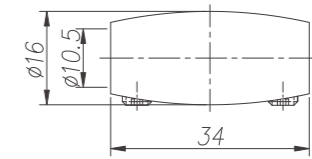
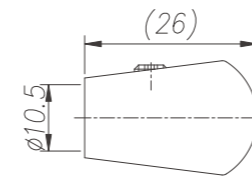
Midrail Accessories

D | Ø3 Ø4 Ø5

Note: 5mm ≤ L ≤ 7mm

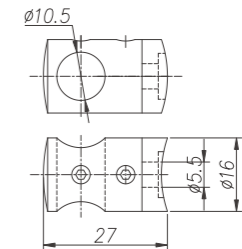
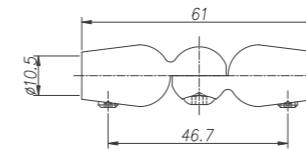


A08-W



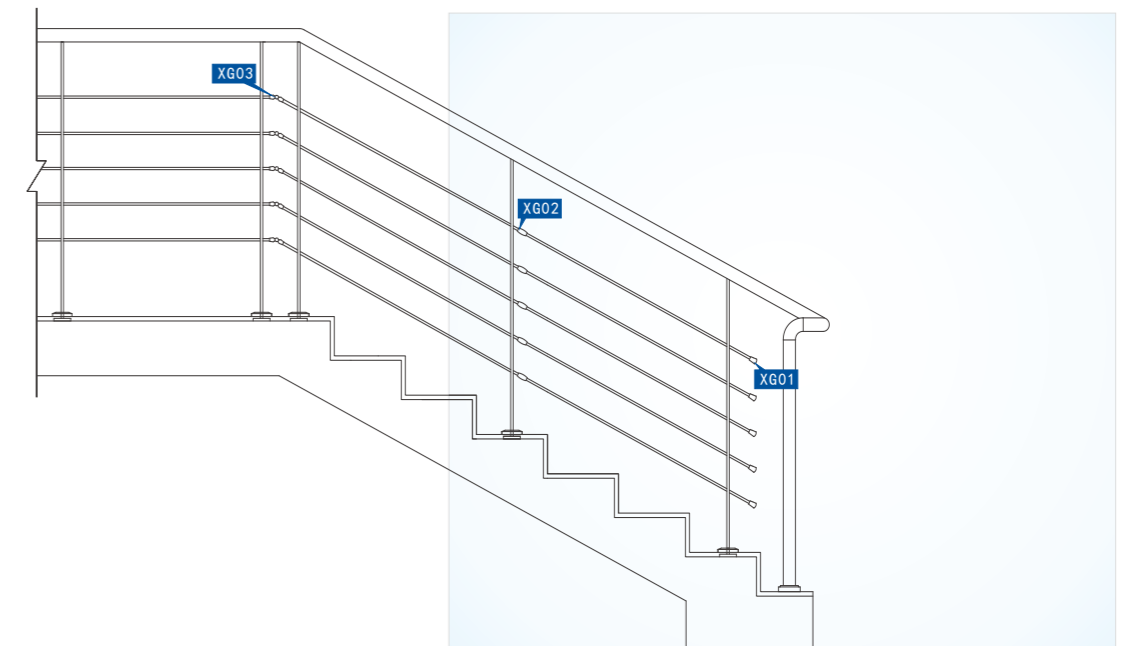
XG01

XG02



XG03

XG04



Metro Products

DTD01 Tactile Studs
Material:CF8 /CF8M
Surface Finish:Satin

DTD02 Tactile Studs
Material:CF8 /CF8M
Surface Finish:Satin

DTT01 Tactile Strips
Material:CF8 /CF8M
Surface Finish:Satin

DTD03 Tactile sidewalk plate (Studs)
Material:CF8 /CF8M
Surface Finish:Satin

DTT02 Tactile sidewalk plate (Strips)
Material:CF8 /CF8M
Surface Finish:Satin

Stainless steel Tactile Studs

Self luminous indicating arrow

Metro Products

Customer service center

Garbage can

Access panel

AFC access panel

Drain panel

Civil air defense threshold panel

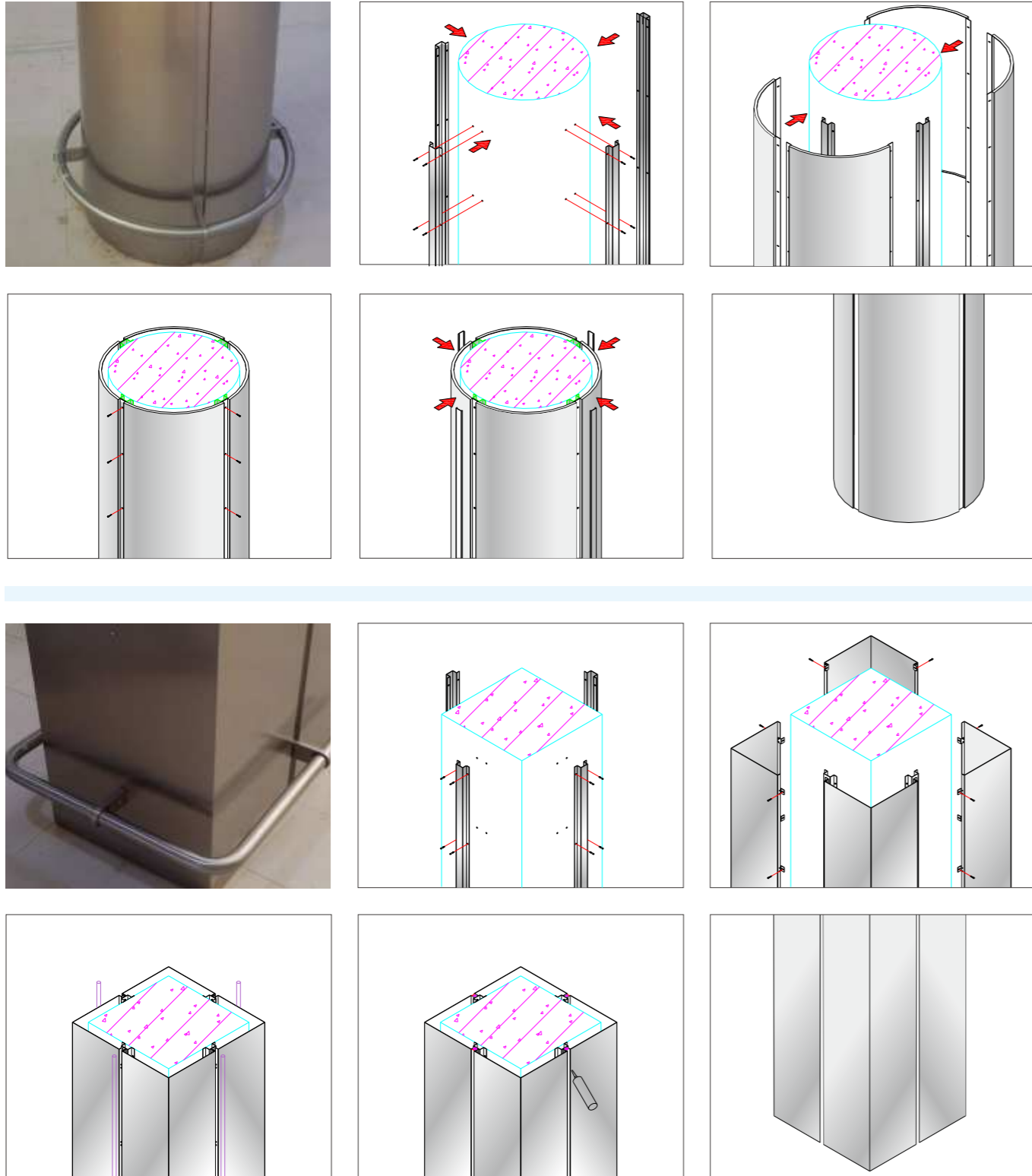
Movable railings

Rat proof baffle

Sheet Metal Cladding Products

Stainless Steel Column Covers
Material: 304/316L
Surface Finish: Satin/Mirror
Panel Thickness T: 1.2/1.5/2.0/2.5mm

Note: Sheet metal unfolding size is less than 1500mm and the length of the size is less than 3000mm. All products should be customized according to the project requirement.



Commonly Used Handrail Sections

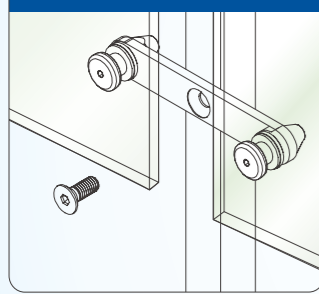


 <p>Circular Tube</p> <p>ϕ</p> <table border="1"> <tr><td>10</td><td>15.9</td><td>25.4</td></tr> <tr><td>31.8</td><td>38.1</td><td>50.8</td></tr> <tr><td>60.3</td><td>63.5</td><td>76.2</td></tr> </table>	10	15.9	25.4	31.8	38.1	50.8	60.3	63.5	76.2	 <p>Elliptical Tube</p> <p>$a \times b$</p> <table border="1"> <tr><td>30*60</td><td>40*80</td></tr> <tr><td>46*100</td><td>50*120</td></tr> </table>	30*60	40*80	46*100	50*120	 <p>Flat Elliptical Tube</p> <p>$a \times b$</p> <table border="1"> <tr><td>30*60</td><td>40*75</td></tr> <tr><td>50*110</td><td></td></tr> </table>	30*60	40*75	50*110		
10	15.9	25.4																		
31.8	38.1	50.8																		
60.3	63.5	76.2																		
30*60	40*80																			
46*100	50*120																			
30*60	40*75																			
50*110																				
 <p>Square Tube</p> <p>$a \times a$</p> <table border="1"> <tr><td>20*20</td><td>25*25</td><td>30*30</td><td>40*40</td></tr> <tr><td>50*50</td><td>60*60</td><td>70*70</td><td>100*100</td></tr> </table>	20*20	25*25	30*30	40*40	50*50	60*60	70*70	100*100	 <p>Rectangular Tube</p> <p>$a \times b$</p> <table border="1"> <tr><td>10*20</td><td>10*50</td><td>15*50</td><td>20*50</td><td>25*75</td></tr> <tr><td>30*50</td><td>30*60</td><td>30*70</td><td>40*80</td><td>50*120</td></tr> </table>	10*20	10*50	15*50	20*50	25*75	30*50	30*60	30*70	40*80	50*120	 <p>Circular U Tube</p> <p>ϕ 43 50.8 63.5 76.2</p> <p>$t \times h$ 24*24 15*15 20*20 25*25</p> <p>Commonly Used Thickness: 1.2 / 1.5</p>
20*20	25*25	30*30	40*40																	
50*50	60*60	70*70	100*100																	
10*20	10*50	15*50	20*50	25*75																
30*50	30*60	30*70	40*80	50*120																
 <p>Elliptical U Tube</p> <p>$a \times b$ 40*80</p> <p>$t \times h$ 24*24</p> <p>Commonly Used Thickness: 1.0 / 1.2 / 1.5</p>	 <p>Square U Tube</p> <p>$t \times h$ 15*15 (40*40)</p> <p>20*20 (40*40)</p> <p>Commonly Used Thickness: 1.0 / 1.2 / 1.5</p>	 <p>Rectangular U Tube</p> <p>$a \times b$ 40*60</p> <p>$t \times h$ 24*24</p> <p>Commonly Used Thickness: 1.2 / 1.5</p>																		

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

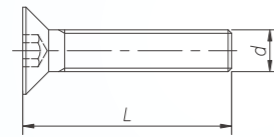
Regular Fasteners

Bracket Fastener

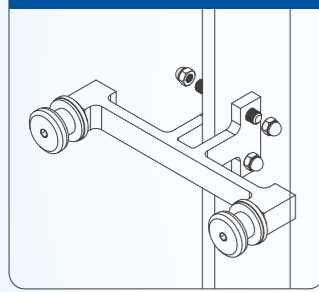


Countersunk Hexagon Socket Screw (DIN 7991)

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

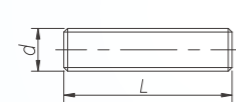


Bracket Fastener



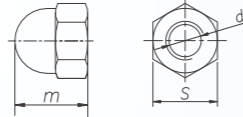
Threaded Bolt (GB/T 15389)

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

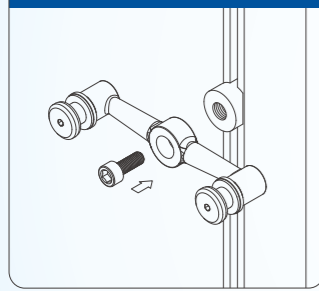


Cap Nut (DIN 1587)

Mark Example:
Nut DIN1587 M8

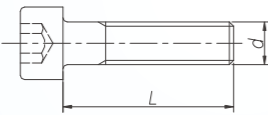


Bracket Fastener

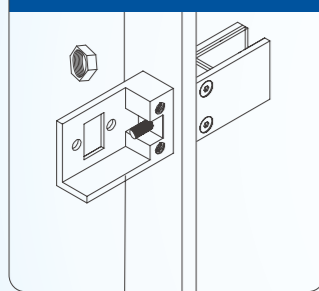


Hexagon Socket Cap Screw (DIN 912)

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

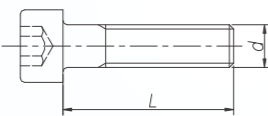


Glass Clamp Fastener



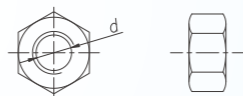
Hexagon Socket Cap Screw (DIN 912)

Mark Example:
Screw DIN 912 M8*L



Hexagon Thin Nut (GB/T 6172.1)

Mark Example:
Nut GB/T 6172.1 M8



Typical Project Cases

Metro projects	Shenzhen Metro Line 4,11	Hot el	Wenzhou a Wai Lou Resort Hotel	Municipal Gardens projects	Pearl River pedestrian overpass - Haixin Bridge	Commercial Syntheses	Beijing Chaoyang Joy City
	Shenyang Metro Line 9,10		Doha Grand Hyatt Hotel		Chengdu Yixin Lake		Beijing Andingmen COFCO Joy City
	Fuzhou Metro Line 1,2,6		Xi'an Shengguang Hotel		Nanjing Garden Expo		Beijing Huazheng Building
	Xi'an Metro Line 1,4,5,6,14		Sheraton Zhanjiang Minda Hotel		Xi'an happy forest belt		Beijing COFCO Fulinmen Building
	Chengdu Metro Line 5,6,7,8,9,17,18		Zhuhai Sheraton Hotel		Tangshan super Greenway		Beijing Wangfujing Department Store
	Changchun Rail Transit Line8 (North Lake Line)		Beijing Zhongcheng Hotel		Beijing Universal Studios theme park		Beijing Youtang Life Square
	Nanning Metro Line 4,5		Chengdu Maowen Hotel		Haihua Island dam and yacht wharf		Shanghai Jinghongqiao International Center
	Zhengzhou Metro Line 4		Ningbo Crown Plaza Hotel		Huangshi Xiando Lake viewing platform		Shanghai Yueyang Plaza
	Hohhot Metro Line 1		Hyatt Hotel		Administrative office area of Beijing Urban sub center		Shanghai Shopping Center
	Ningbo Metro Line 3Shijiazhuang Metro Line 3		Dali Hilton Hotel		Nanning BRT curtain wall overpass		Guangzhou Zhujiang New Town
	Qingdao Metro Line 1		Hong Kong West Kowloon Hotel		Zhaoqing pedestrian overpass		Shenzhen Vanke One City
	Nanjing Metro Line S6		Qatar Hotel Doha		New construction project of joint report headquarters building		Shenzhen Yitian Holiday Shopping Center
	Station projects		Harbin Metro Line 2		Beijing No.1 Silicon Valley		Gymnasium, convention and exhibition
Depot of Guangzhou metro lines 18 and 22		Qinhuangdao Golden Dream Bay	Shenzhen Pingshan Cultural Complex	Shenyang Joy City			
Wuxi Metro Line 2		Tianjin Jewelry Garden	Nanjing Youth Olympic Sports Center	Shenyang Pengli Square			
Wulumuqi Metro Line 1		Shanghai Shipyard District Residential Project	Tianjin Olympic Sports Center	Shenyang Dafa Square			
Tianjing Metro Line 4,6		Guangzhou Times Bund	Shanghai Expo Center	Shenyang Heng Long Street			
Taiyuan Metro Line 2		Foshan Haijunda City	Oriental Pearl of Shanghai	Harbin Hongchuang City Square			
		Shenzhen Overseas Chinese Town Chuangxiang Building	Guangzhou Pazhou Exhibition Center	Linyi Zhonghui Square			
Zhengzhou East Station	Hanzhou Ginkgo Biloba	Shenzhen Pingshan Cultural Center	Chengdu Raffles City Plaza				
Airport	Tianjin Train Station	Hainan Haihua Island	Residential	Office Building	Chengdu Maoye Center		Yunnan Qijing Commercial Building
	Xi'an North Train Station	Hainan Sunachuang-Wanning Sun Moon Bay			Zhenjiang Sports Center		Kunming Jialianhua Square
	Hong Kong West Kowloon High-speed Railway Station	Hainan Rongchuang-Diamond Coast			Ningbo International Financial Services Center		Kunming Shuncheng Shopping Center
	Dongguan South Railway Station	Sanya Blue Sea and South Sky			Ningbo Cultrue Center		Kunming Joy City
		Zhuhai Renheng Peninsula Garden			Ningbo International Exhibition Center		Lanzhou New World Shopping Square
		Yunnan Mountain Gather			Xiamen Strait Conference Center		Zhengzhou MIXC
		Xiamen Hangho Qishang			Xiamen Jiageng Stadium		Zhengzhou Zhenghong International Plaza
		Fuzhou East Lake-Yue Rong Bay			Wuxi World Trade Center		Wuhan IKEA
		Chengdu Central Iron Rose Art City			Kunming Dianchi Exhibition Center		Hangzhou MIXC
		Zhongshan Longshan Huafu			Hong Kong Asia International Expo		Wuxi Yingte IKEA
		Zhongshan Xing Hui Bay			Inner Mongolia Minority Mass Culture and Sports Center		Qingdao Wanda Plaza
		Guiyang Forest City Flower Capital			Beijing City Sub-center Administrative Office Project		Bulgarian Varna Shopping Center
		Zhengzhou Yongwei Shangheyuan			Beijing Peotro China Building		Singapore Binhai Bay Comprehensive Entertainment City
	Wuhan Dingxiu Northwest Lake	Guangzhou Mobile Branch	Australian Top West Mansion				
	Zhengzhou Hanhai voyage	Taiwan Union News Headquarters Building New Construction	Xiamen MIXC				
	Maoming Jinyuan Bay City	Comprehensive Dispatching Building of Henan Electric Power Company	India Pheonix Market City				
	Heyuan Dongjiangwan phase III	Russian State Building	Big shopping center Melbourne				
	Huizhou Changsha Bay Garden	Kunming Party anf Government Center	Zhuhai HUAFA business capital				
	Huludao first • Longwan phase II	Xi'an Radio and Television Center					
	Wenzhou South Zhejiang Vanke green axis G22 project	Fujian Radio and Television Center					
	Ningbo Hangzhou Bay intelligent garden	Wuxi World Trade Center					
	Nb3 glass rail North America	Wuxi Radio and Television Media					
	North America TANGRAM PLAZA	National Development Bank					
	Thailand SUPALAI ORIENTAL SUKHUMVIT 39	Wuhu Huadian Complex Building					
	India Nivee Gardens	Office building of Zigong Yun Machine Group					
				Henan Cancer Hospital			
				Hainan 301 Hospital			
				Peking University International Hospital			
				Hangzhou people's Hospital			
				Shanghai Zhongshan Hospital			
				The Second Affiliated Hospital of Dalian Medical University			



Airport projects



Beijing Daxing International Airport(Beijing New Airport)



Qingdao Jiaodong International Airport



Kenya Airport



Kunming Changshui Airport



Terminal T3 of Chongqing Jiangbei Airport



Nanning Wuxu International Airport

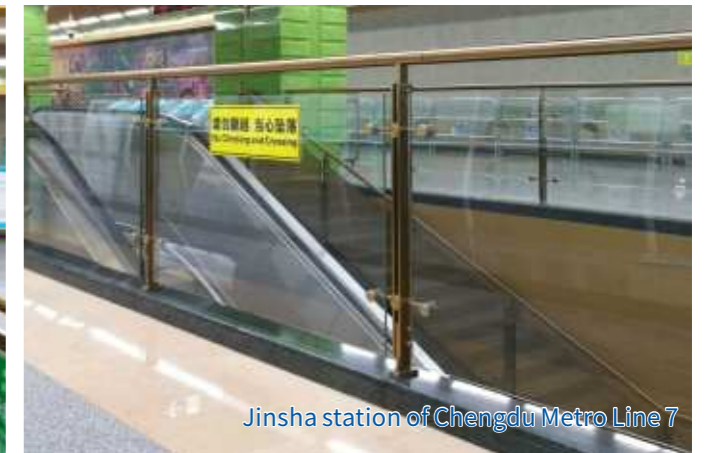
Metro /Station projects



Jinsha station of Chengdu Metro Line 7



Jinsha station of Chengdu Metro Line 7



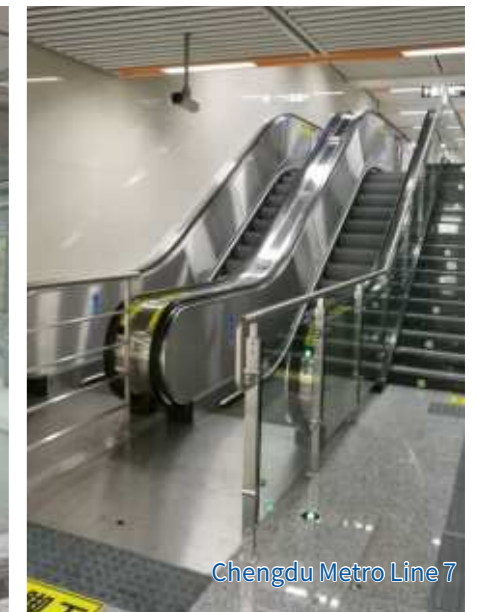
Jinsha station of Chengdu Metro Line 7



Chengdu Metro Line 7



Fuzhou Rail Transit Line 1



Chengdu Metro Line 7



Municipal Gardens projects



Beijing Olympic Sports Park Observation Deck



Nanjing Garden Expo



Chengdu Yixin Lake



Nanjing Garden Expo1



Haihua Island dam and yacht wharf

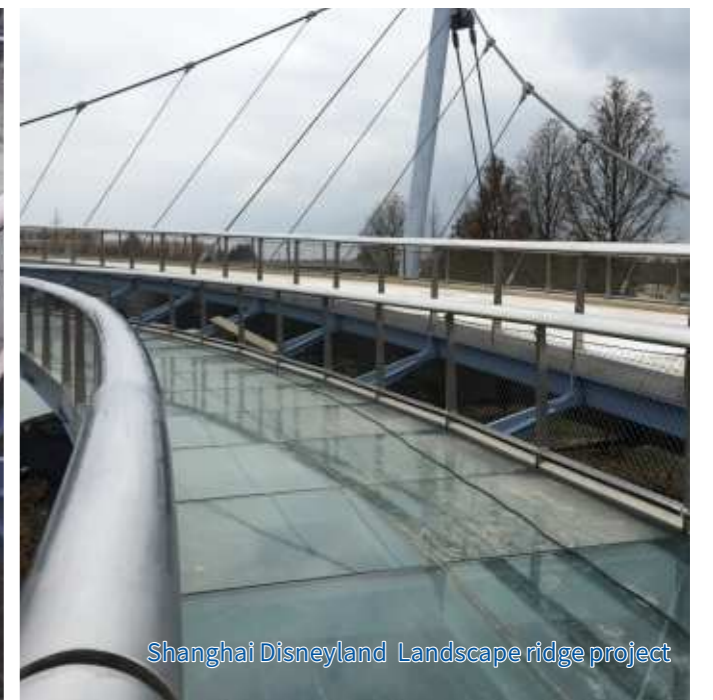
Municipal Gardens projects



Pearl River pedestrian overpass · Haixin Bridge



Shanghai Disneyland Landscape ridge project



Shanghai Disneyland Landscape ridge project

Commercial Spaces



Chengdu Fusenmei home furnishings Co., Ltd



Bulgarian Varna Shopping Center



Chengdu Fusenmei home furnishings Co., Ltd



Shenyang Henglong middle street



Chengdu Fusenmei home furnishings Co., Ltd

Commercial Syntheses



Chengdu Raffles City Plaza



Chengdu Raffles City Plaza



Zhengzhou MIXC



Zhengzhou MIXC



Zhuhai HUAFA business capital



Zhuhai HUAFA business capital



Gymnasium, convention and exhibition Centers

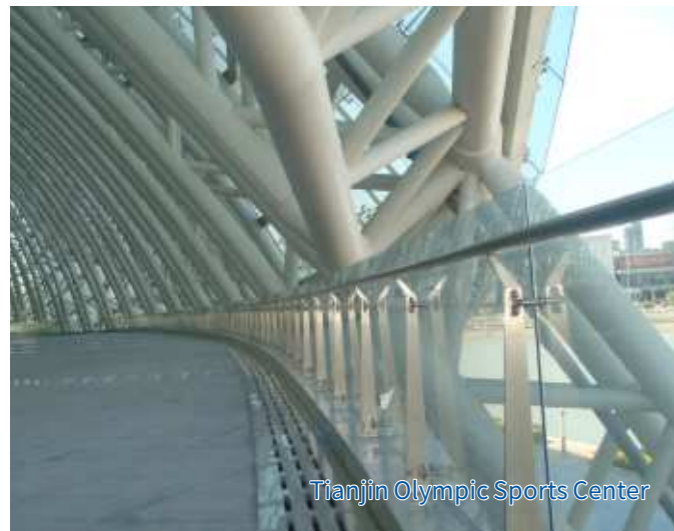
Hotel



Wuhan Qintai Grand Theatre



King Road Tower



Tianjin Olympic Sports Center



Oriental Pearl of Shanghai



Chengdu Maowen Hotel



Canary Center



Nanjing Youth Olympic Sports Center



Zhenjiang Sports Center

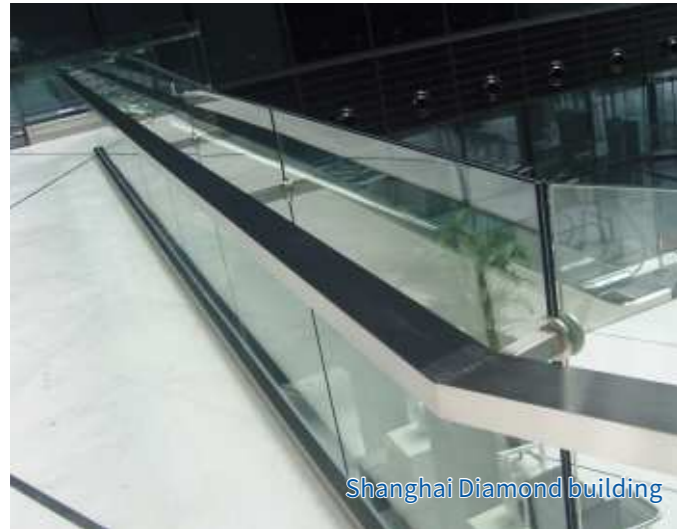


Nanning Wuxu International Airport



Ningbo Crown Plaza Hotel

Other Cases



Shanghai Diamond building



Guangzhou Times Bund



Henan Cancer Hospital



Office building of Zigong Yun Machine Group



Chengdu Maoye Center



Sydney elderly care centre

Other Cases



Dali Binhai Junyuan



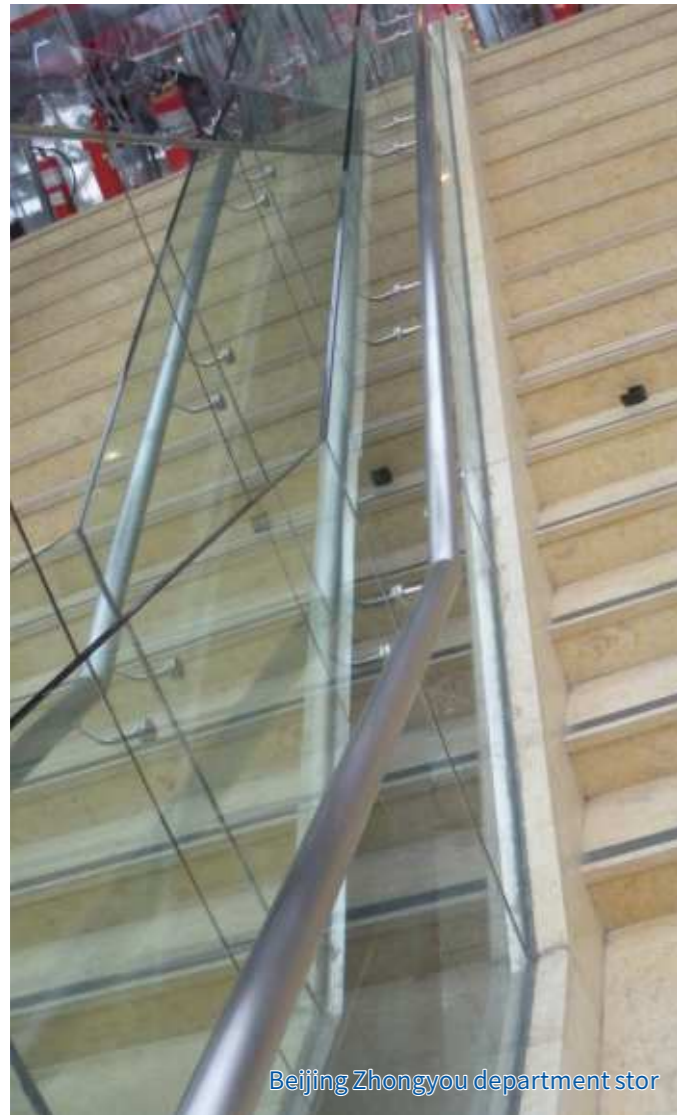
Beijing Peotro China Building



Ningbo Crown Plaza Hotel



Other Cases



Beijing Zhongyou department stor



Pheonix Market City (Mumbai, India)



Zhongguancun first floor lobby



Hefei Xintiandi

Other Cases



大Grand shopping center Melbourn CHASTONE



Ningbo International Financial Center



Singapore fengshu commercial city



Singapore fengshu commercial city