
EP STAIR RAILING

Stair railing

Stair Railing Series

楼梯扶手





ODM&OEM

Any kinds of
Stainless steel fittings and pipes

STAIR RAILING

SERIES





Balustrade railing

/

Design

EPAI conceives new ideas from dialogues with manufacturing professionals ,applies modern design to unknown traditional techniques and the latest technology and delivers novel designs.

based on these experiences ,UNITE-precisely because it is EPAI delivers impression and coziness to each individual gathering in the space.

OEM&ODM EXPORT
SINCE 1997

Easy balustrade system





WHY DO YOU NEED QUALITY TUBES FOR BALUSTRADES ?

Stair railing ideal tubing formula only the best metal

Adhere to high rust and corrosion resistance?

We use superior metal raw materials containing nickel and chromium (this is the most expensive element and these elements are resistant to corrosion).

PRIMA (AISI201)

EUROPEAN STANDARD: 1.4372 CHINESE STANDARD: 12Cr17Mn6Ni2N

201 stainless steel, with a certain acid and alkali resistance. Mainly used for decorative tubes, industrial tubes, some shallow stretched products. The balustrades are adapted to dry indoors and clean places, such as classrooms, classrooms, and conference rooms.

SUPER (AISI304)

EUROPEAN STANDARD: 1.4301 CHINESE STANDARD: 06Cr19Ni10

304 stainless steel is a common material in stainless steel with a density of 7.93 g/cm³, also known as 18/8 stainless steel. It has the characteristics of good processing performance and high toughness, and is widely used in industrial and furniture decoration industry and food medical industry. Building decoration materials such as stair railings are widely used in places where the requirements of the World Health Organization are required.

UNTRA (AISI316L)

EUROPEAN STANDARD: 1.4404 CHINESE STANDARD: 022Cr17Ni12Mo2

316 stainless steel is a kind of stainless steel. Due to the addition of Mo element, it has a great improvement in corrosion resistance and can be used under harsh conditions. UNTRA stainless steel common pipes, balustrades in coastal areas and materials used outside the building.

Will the tube bend and break?

We studied metals and rich compositions, and the durability and plasticity of our tubes created our tubes without cracking.

Corrosion is the process of destroying metal in a harsh environment. It has the corrosion resistance in the oxide of the interlayer. When the surface of the chrome metal is oxidized in the air, the higher the content of chromium, the more resistant to corrosion.

Causes of corrosion: electrochemical contact between petroleum and metal, acid, alkali, salt soil, humid atmosphere, marine environment.

The sustainability of the electrochemical corrosion resistance of steel is called corrosion of steel; the corrosion resistance of chromium to steel reaches 7% of the elements introduced on the surface, forming a strong and insoluble film, inhibiting oxidation. Corrosion resistance is more pronounced if the steel surface is polished and has no point defects.

Comparison of chemical composition on 304 stainless steel tube

AISI304	C (Carbon)	Cr (Chromium)	Ni (Nickel)
worth taking note of	The less the carbon content, the better, the single carbon is higher than 0.09%. The chromium and nickel components have no special treatment and are prone to severe rust.	The higher the proportion of chromium, the better. Under normal conditions, less than 18% are prone to corrosion.	The higher the nickel, the more resistant to corrosion, and the less than 8%, there is a risk of corrosion.
Standard AISI304	≤ 0.08	18.0-20.0	8.0-10.0
Average of cheap tubes	0.09	17.9	7.85
Most expensive tube parameters	0.065	18.05	8.08
SUPER tube parameters	0.025	18.12	8.11
Standard AISI304L	0.03	18.2	8.0-10.0



Comparison of chemical composition on 201 stainless steel tube

AISI201	C (Carbon)	Cr (Chromium)	Ni (Nickel)
worth taking note of	The less the carbon content, the better, the single carbon is higher than 0.12%. The chromium and nickel components have no special treatment and are prone to severe rust.	The higher the proportion of chromium, the better. Under normal conditions, less than 18% are prone to corrosion.	The higher the nickel, the more resistant to corrosion, and the less than 8%, there is a risk of corrosion.
Standard AISI201	≤ 0.12	14.0-16.5	1.0-1.5
Average of cheap tubes	0.146	13.3	0.064
Most expensive tube parameters	0.069	14.05	1.04
SUPER tube parameters	0.065	14.15	1.22

WHY SPECIAL PIPES ARE NEEDED FOR STAIR RAILS ?

The less the carbon, the better, rust in the room greater than 0.12; the higher the chromium, the better; the less than 18% will corrode; the higher the nickel, the better; the less than 8% will corrode.

Robust and convenient packaging

In order to allow customers to get the steel pipe, the use is more convenient, the product is not damaged, we have done a lot of research work to ensure, from the beginning of the production of the pipe, we carried out a special study in consideration of every link in the installation of the railing. This is a problem that we pay special attention to, to ensure the production of qualified quality products, the bad factors caused by packaging, the collisions caused by short-distance transportation, and the problems arising from shipping, etc., comprehensively considering the combination of product quality and cost, and finally got the most Good packaging method.

Each tube is placed inside a plastic sleeve.

The plastic sleeve is to the whole production, not the disjointed splicing. The tube is well protected in the plastic sleeve and there are no unnecessary scratches, so that you get the perfect ideal tube.

The package can withstand all kinds of bad weather such as rain, frost, snow and heat.

On rainy days, the tube can be hidden, no further packaging is required, the package is taken out of the package, dried with a cloth and dried properly, and it can be processed immediately.

Our packaging

Unlimited storage in dust, dirt, and oil environments. Although the exterior of the package is dirty, when you peel off the cartridge, it will shine like a new one without wiping the surface. Although it is placed for a while, it does not affect the easy-making of money.

Each tube is packaged in color coded

The black mark means the "TPN" tube and the red-counterfeit laser stamp is attached to the tube. The red mark is the super product. The "spices" blue mark means the 201 product, which will never make you wrong when used. The product is always your most assured product.

Each product has a label that you can easily identify

Each product will have a label corresponding to the standard and requirements, and it is not easy to make mistakes when shipping to your warehouse. If you have a malicious change, please rest assured that we also have corresponding trademarks and logos on the products. Our products have excellent surface treatment and reliable packaging, so you can use them with confidence.

High-grade packaging

We also offer our customers a package that is superior to their peers. We use high-grade packaging materials to wrap the product in a white, neat and safe outer sleeve. Our products stand out in many products, and you can easily see the high-quality stainless steel tubes that are wrapped safely.

Smart bale

We use a lot of tape to hold the tubes together and ensure that the products are not deformed, so that they can be easily stored and transferred during transportation. You can easily arrange them neatly, which saves your warehouse space.

Every nozzle we pass special treatment

We have strict quality control and process control, and the nozzle does not occur because the chemical composition of chromium and nickel changes after cutting, which causes the edge to rust.

Further protection of our packaging

According to our statistics, there are 64% of cases where the packaged packaging tape is easy to break. Therefore, we have taken care to avoid packaging damage in the medium term, so each package has an extra bondage at the top edge that effectively protects the outside from damage to the stainless steel tube and packaging.

Innovative design of the package will take into account the convenience of carrying staff.

We specify in what kind of specifications, how many bundles, and can be safely shipped and placed. We have studied the number of ways that our customers can sell and use the most convenient way, even if they don't break the package, they can be sold and put into use.

We can also provide the convenience of short-sized tubes for individual customers.

There are many customers who use stainless steel pipes for stair railings, and often use short-sized stainless steel pipes. We have designed some unique suggestions to make the pipe lengths 3.8 meters and 4.3 meters. In this way, you can save your budget for purchasing projects, and it is more convenient to buy the stair railings that we have tailored for you. The standard for the pipe market is 6 meters long, so this is good for your production and sales. We also have matching railings, and a means for you to use and purchase. Therefore, you can professionally solve the problems in the design and installation of stair railings, really saving you the cost of installing the balustrade. We have a sales and production experience of 1-60-83 meters of balustrades, which will provide you with real convenience and the best price. You choose our factory to serve you, this is the most correct choice.



PERFECT FINISH

Be sure to pay attention to the finish of the product

✦ Excellent surface quality

We will strictly polish the handrails, although it is difficult to find scratches at a distance of 20m. It is necessary to know that the anti-rust properties of stainless steel contain a large amount of anti-rust chemical elements such as chromium and nickel, and good surface treatment can also effectively enhance the corrosion resistance.

✦ High standard mirror finish to 800# (BK).

Our high standard finishes meet the demanding and demanding customer requirements for surface treatment. The product will look like a mirror, so you don't have to re-polish the stainless steel tube that makes the stair rails.

How does EPAI regulate the marking of stainless steel pipes?

[Prima] corresponding product is Aisi201

[Super] corresponding product is Aisi304

[Ultra] corresponding product is Aisi316L

✦ For the thickness identification of stainless steel tubes:

- (1) -Such as pipe thickness 2mm, prima5, super5, ultra5;
- (4) -Such as pipe thickness 1.7mm, prima4, super4, ultra4;
- (3) -Such as pipe thickness 1.5mm, prima3, super3, ultra3;
- (2) -Such as pipe thickness 1.35mm, prima2, super2, ultra2;
- (1) -Such as pipe thickness 1.2mm, prima1, super1, ultra1;
- (0) -Such as pipe thickness 1.0mm, prima0, super0, ultra0;

✦ For the definition of the quality of stainless steel tube polishing:

- (+) Premium polishing method, 900# level;
- (-) Conventional polishing method, 600# level;
- (—) Degraded polishing method, 500# level;

For example: the diameter is 36 round tubes, the material is A53316L, the wall thickness is 1.5 thick, and the surface treatment is 600#.



✦ Ingenious craftsmanship ensures that the weld has no hand-welded welds and is hard to find with the naked eye.

Our special welding process, leading technology and industry level, is difficult to find with the naked eye, and has a comfortable and comfortable feel.

✦ Confident and firm support

Our BK series stainless steel tubes are truly mirror-finished, the highest standard in the industry, with brightness and finish really reaching 900#. Please note that this is not chrome plating, but the results of our many years of production experience and a large number of experiments, and really do it for you.



Method: Fe-30.F
Comment: Cr-Cu/Ni steel - F
Type Standard: 316-11380a
Sample Name:

	C	Si	Mn	P	S	Cr	Ni	Mo	N
***10	0.044	0.011	0.040	0.0045	0.0015	0.06	1.06	0.03	0.010
	Al	Bu	Co	Mo	Se	W	Te	Re	Fe
***10	0.0012	0.001	0.0005	0.010	0.0005	0.0007	0.0005	0.0005	
	Bi	As	Sr	B	Pb	Sb	Sn	Ag	Cu
***10	0.0005	0.0015	0.0005	0.0005	0.01	0.0005			



PRODUCT QUALITY CONTROL

Quality assurance parts, multi-stage quality control enhances the company's reputation and positions our stainless steel railings and components.

✦ Prior to the quality control of the first metal manufacturing.

The first batch produced metal, through visual control and forced control of chemical composition. After the quality control engineer successfully passed the test, the metal entered the production workshop. This is a very important stage. If at this stage, the first year of work quality control system from 20 suppliers, only two large factories that meet all our requirements, these products are of high value, but we determine ourselves. This is very important to us, and we hope that our partners can appreciate this.

✦ What about the conveyor belt on the details

Compliance with dimensional control during production, control before packaging

✦ Warehouse Shipping - Finishing Control

After three stages of quality control, packaging, label inspection, we believe that the inspection control system is the best, no one else in China to do such a thing. And you can't see the extra charge for these services in the price list, you only see the price of the excellent substrate.


ROUND FLEX COMPONENT

The FLEX line consists of a circular tube designed to ensure a higher system flexibility and suitability for different types of items, is to connect pipes, brackets, etc. mounted on the ground, made of AISI 304 or AISI 316 stainless steel, provided Fine polishing or brushing options; you can also follow the customer's request to make other colors (gold, matt black, etc.)



TUBE

AISI 304 	
Subway bar	
EPC020	Tube 12,7mm
EPC054	Tube 16mm
EPC021	Tube 46mm
bar with 6mm	
EPC116	Tube 12,7mm
EPC117	Tube 16mm
EPC118	Tube 40mm
AISI 316 	
Subway bar	
EPC290	Tube 16mm
EPC291	Tube 44mm
bar with 6mm	
EPC292	Tube 16mm
EPC293	Tube 44mm

 Foto: ambiente com corrimão Flex postes e componentes redondos



FLEX BARRA HANDRAIL

The FLEX BARRA HANDRAIL series of flexible wire rods is an innovative modular system with armrests, guardrails, and round tubes and respective connections. Its installation using solder is completely dispensed with by working by cutting the pipes between each other and connecting these parts by using adhesives and/or rivets. This ensures quick installation and cleaning work, perfect completion, and fully meets the customer's work for delivery. The system allows the horizontal rails for the side rails to be closed to be 12.7 or 16 mm stainless steel rods, and the vertical steel bars are also 12.7 mm stainless steel rods. This versatile model and their convenient flexibility allow customers to create completely customizable spaces to enjoy. AISI 304 stainless steel can be used indoors, and AISI 316 stainless steel can be used at the seaside or in harsh environments. FLEX BARRA offers both polished or brushed options.



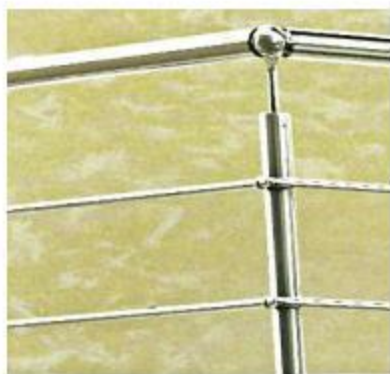
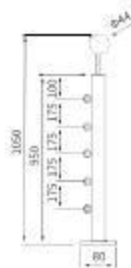


**POST EXTERNAL BAR
12.7MM**

AISI 304

EPC057IP
Post external bar 12.7mm polished

EPC057IE
Post external bar 12.7mm satin

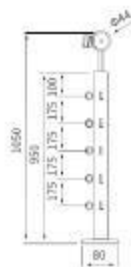


**POST EXTERNAL BAR
CORNER 12.7MM**

AISI 304

EPC059IP
Post external bar corner 12.7mm polished

EPC059IE
Post external bar corner 12.7mm satin



**POST WITHOUT
NECK EXTERNAL BAR
12.7MM**

AISI 304

EPC185IP
Post without neck external bar 12.7mm polished

EPC185IE
Post without neck external bar 12.7mm satin



**POST EXTERNAL BAR
CORNER 16MM**

AISI 304

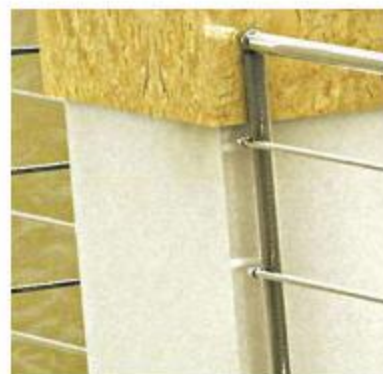
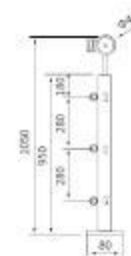
EPC060IP Post inner bar corner 16mm polished

EPC060IE Post inner bar corner 16mm satin

AISI 316

EPC207IP Post inner bar corner 16mm polished

EPC207IE Post inner bar corner 16mm satin



**POST WITHOUT NECK
EXTERNAL BAR 16MM**

AISI 304

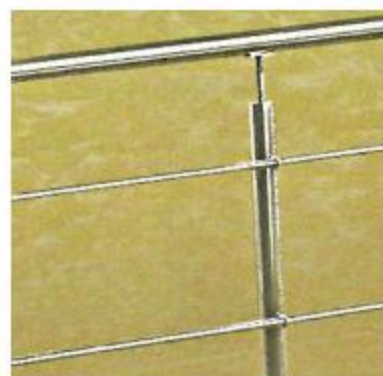
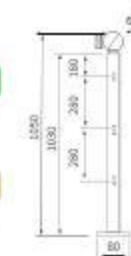
EPC186IP Post without neck external bar 16mm polished

EPC186IE Post without neck external bar 16mm satin

AISI 316

EPC209IP Post without neck external bar 16mm polished

EPC209IE Post without neck external bar 16mm satin



**POST EXTERNAL BAR
16MM**

AISI 304

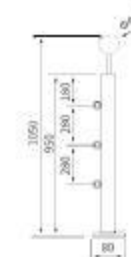
EPC058IP Post external bar 16mm polished

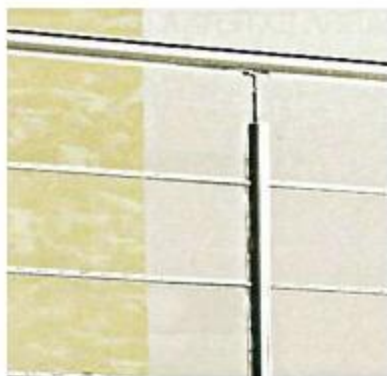
EPC058IE Post external bar 16mm satin

AISI 316

EPC058IP Post external bar 16mm polished

EPC058IE Post external bar 16mm satin



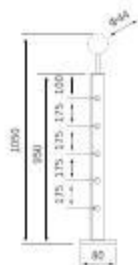


POST INNER BAR MIDDLE 12.7MM

AISI 304

EPC042IP Post inner bar middle 12.7mm polished

EPC042IE Post inner bar middle 12.7mm satin



POST INNER BAR CORNER 16MM

AISI 304

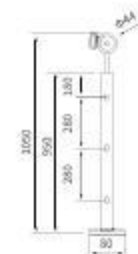
EPC111IP Post inner bar corner 16mm polished

EPC111IE Post inner bar corner 16mm satin

AISI 316

EPC261IP Post inner bar corner 16mm polished

EPC261IE Post inner bar corner 16mm satin

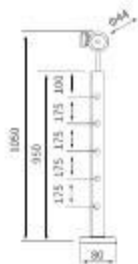


POST INNER BAR CORNER 12.7MM

AISI 304

EPC041IP Post inner bar corner 12.7mm polished

EPC041IE Post inner bar corner 12.7mm satin



POST SMOOTH

AISI 304

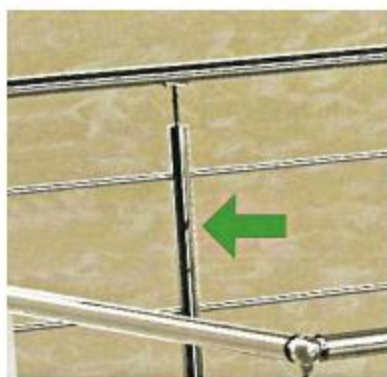
EPC031IP Post smooth polished

EPC031IE Post smooth satin

AISI 316

EPC261IP Post smooth polished

EPC261IE Post smooth satin



POST INNER BAR MIDDLE 16MM

AISI 304

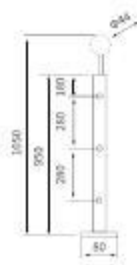
EPC110IP Post inner bar middle 16mm polished

EPC110IE Post inner bar middle 16mm satin

AISI 316

EPC260IP Post inner bar middle 16mm polished

EPC260IE Post inner bar middle 16mm satin



POST SMOOTH CORNER

AISI 304

EPC030IP Post smooth corner polished

EPC030IE Post smooth corner satin

AISI 316

EPC270IP Post smooth corner polished

EPC270IE Post smooth corner satin

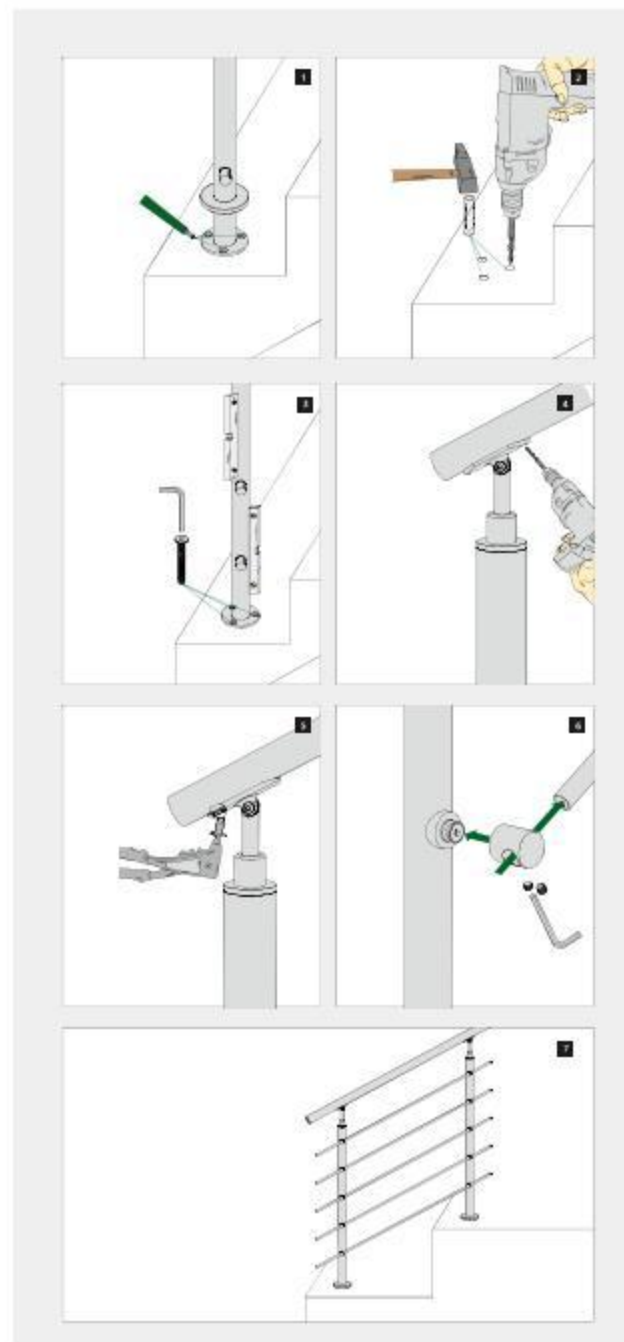


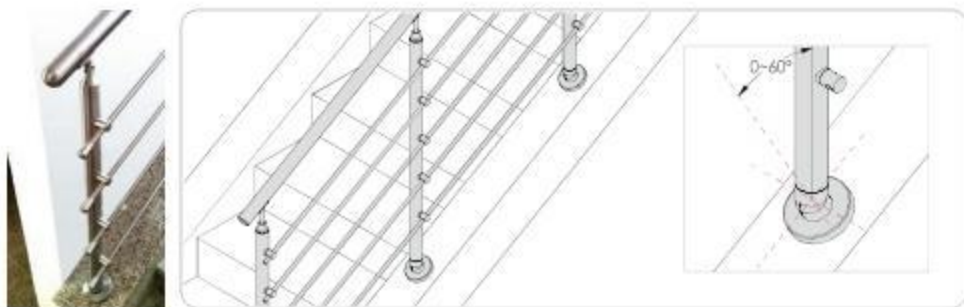
Installation Necessary fitting



Process perfect curve lubrication exquisite texture

Installation Necessary fitting





HP950-6

Material

SUS 304/316 Stainless Steel

Φ	A	B	C	D
42.4x1.5	290	508	290	150
50.8x1.5				

304 316



HP950-7

Material

SUS 304/316 Stainless Steel

Φ	B	H
50.8x1.5	88	808

304 316

HP950-8

Material

SUS 304 Stainless Steel

Φ	A	B	C	D
42.4x1.5	190	134	190	190

304 316



HP950-9

Material

SUS 304 Stainless Steel

Φ	A	B	C	D
42.4x1.5	130	128	130	190

304 316





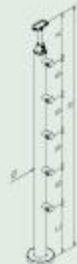
HP950-10

Material

SUS 304 Stainless Steel

D	A	B	C	D
42.4x1.5	120	180	200	850
50.8x1.5				

304 316



HP1100-2

Material

SUS 304 Stainless Steel

D	A	B	C	D
42.4x1.5	120	180	200	1180
50.8x1.5				

304 316



HP950-11

Material

SUS 304 Stainless Steel

D	A	B	C	D
42.4x1.5	100	180	200	850
50.8x1.5				

304 316



HP870-1

Material

SUS 304 Stainless Steel

D	A	B	C	D
42.4x1.5	120	150	200	850
50.8x1.5				

304 316



HP870-2

Material

SUS 304 Stainless Steel

D	A	B	C	D
42.4x1.5	120	150	200	850
50.8x1.5				

304 316



HP870-3

Material

SUS 304 Stainless Steel

D	A	B	C	D
42.4x1.5	120	150	200	850
50.8x1.5				

304 316





PF-1001-Sharp-90

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1003-R-90

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1001-Sharp-135

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1002-Round-90-2

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



PF-1001-Sharp-135

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



PF-1001-Sharp-135-2

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



PF-1002-Rotating

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1002-Round-90

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1103-Flexible-2

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1103-Flexible-2

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



C016IP

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



C016IE

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



PF-1001-T

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1003-F

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PF-1003-X

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



C016IA

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



PFP-04

Material	Size
SUS 304 Stainless Steel	Ø 41.5/54.5
SSS/PSS	W 41.5/54.5
304	



PFP-05

Material	Size
SUS 304 Stainless Steel	Ø 38/51mm
SSS/PSS	
304	



PFP-03-PLUG Round

Material	Size
SUS 304 Stainless Steel	Ø: 4, 5, 6, 8
	W: 4, 5, 6, 8

304



PFP-03

Material	Size
SUS 304 Stainless Steel	Ø: 38, 51mm
SSS/PSS	

304



PFP-02-PLUG SOLID-Flat

Material	Size
SUS 304 Stainless Steel	Ø: 40, 51mm
SSS/PSS	

304



PFP-01-PLUG Round

Material	Size
SUS 304 Stainless Steel	Ø: 30, 31mm
SSS/PSS	

304



PF-Flange01

Material	Size
SUS 304 Stainless Steel	Ø: 30mm
SSS/PSS	

304



PF-Flange02

Material	Size
SUS 304 Stainless Steel	Ø: 51mm
SSS/PSS	

304



PF-Flange03

Material	Size
SUS 304 Stainless Steel	Ø: 4, 5, 6, 8
	W: 4, 5, 6, 8

304



PF-Top01-Flexible

Material	Size
SUS 304 Stainless Steel	Ø: 30mm
SSS/PSS	

304



PF-Top01

Material	Size
SUS 304 Stainless Steel	Ø: 51mm
SSS/PSS	

304



FLEX BARRA SQUARE **HANDRAIL**

FLEX BARRA SQUARE HANDRAIL is an innovative modular system with square poles and guardrail grab bars. The **40mm** square tube of the utility pole is laterally closed and connected to the small square tube. This line is unfolded to satisfy the desire, architect And designers also combine the use of people and the use of cleaning elements in their work. It now offers an elegant look and design that combines perfectly with the decoration of your home. The installation process completely eliminates the welding process, through the use of pipes and connecting these parts through the use of rivets or glue. This ensures quick installation and cleaning work, perfect completion, and fully meets the customer's work for delivery. The system allows for **10 years** or **15 mm** to be used on the side rails that are closed. It can be made of **AISI 304** for indoor use or **AISI316** for outdoor and seaside use of stainless steel. It can be polished or brushed. It can also be customized to make other colors (gold, **matt black**, etc.)

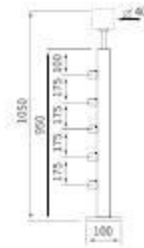


POST SQUARE EXTERNAL BAR 10mm

AISI 304

EPC169P
Post square external bar 10mm polished

EPC169E
Post square external bar 10mm satin

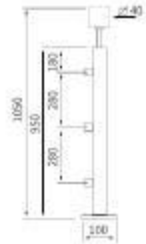


POST SQUARE EXTERNAL BAR 15mm

AISI 304

EPC199P
Post square external bar 15mm polished

EPC199E
Post square external bar 15mm satin



POST SQUARE EXTERNAL BAR CORNER 10mm

AISI 304

EPC167P
Post square external bar corner 10mm polished

EPC167E
Post square external bar corner 10mm satin

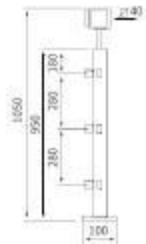


POST SQUARE EXTERNAL BAR CORNER 15mm

AISI 304

EPC197P
Post square external bar corner 15mm polished

EPC197E
Post square external bar corner 15mm satin



POST SQUARE WITHOUT NECK EXTERNAL BAR 10MM

AISI 304

EPC172P
Post square without neck external bar 10mm polished

EPC172E
Post square without neck external bar 10mm satin

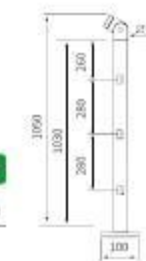


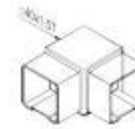
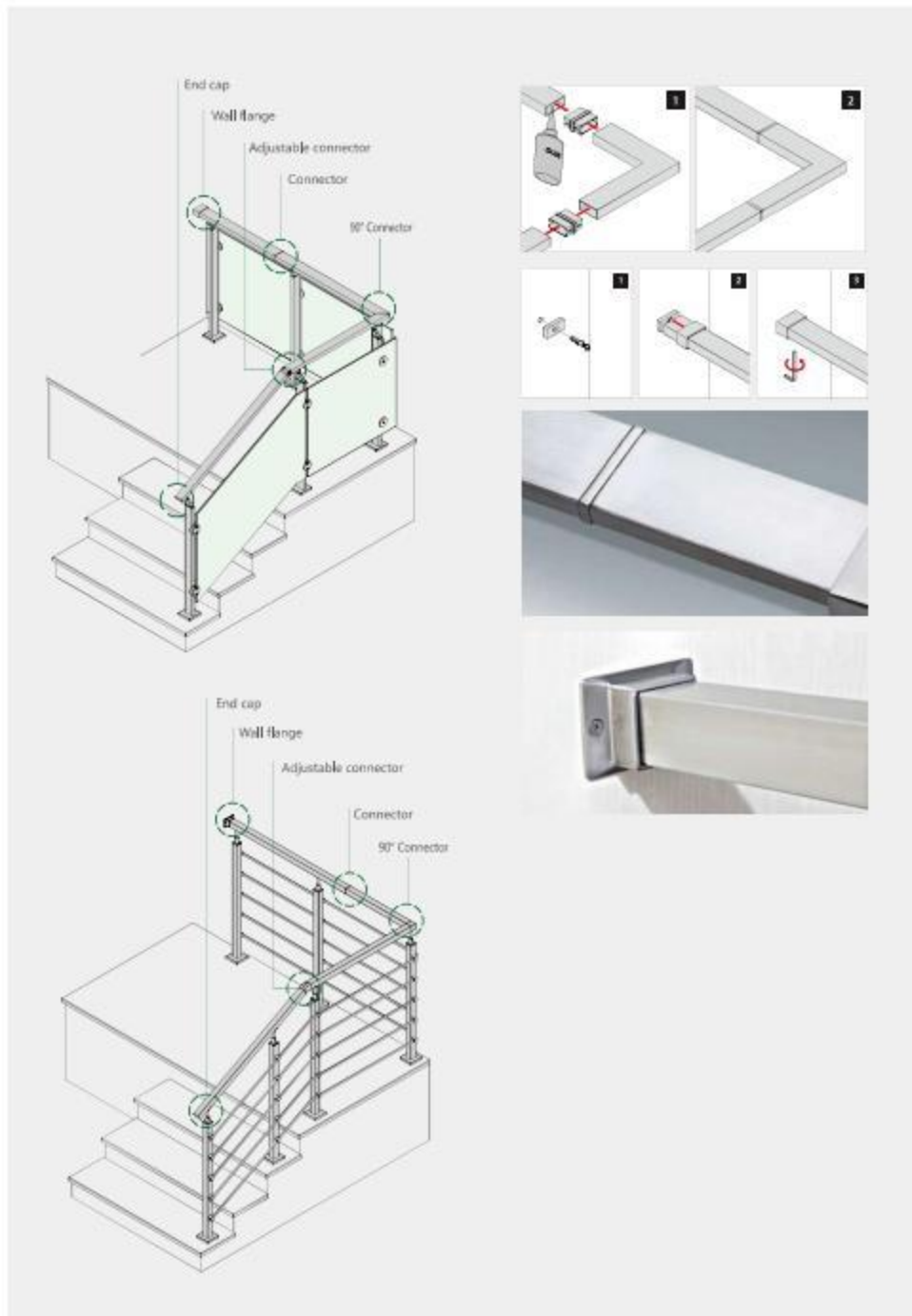
POST SQUARE EXTERNAL BAR CORNER 15mm

AISI 304

EPC199P
Post square without neck external bar 15mm polished

EPC199E
Post square without neck external bar 15mm satin

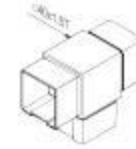




PF-1011-90

Material: SUS 304 Stainless Steel 40x40x1.5T

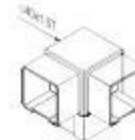
Size: 304



PF-1011-T

Material: SUS 304 Stainless Steel 40x40x1.5T

Size: 304



PF-1011-F

Material: SUS 304 Stainless Steel 40x40x1.5T

Size: 304



PF-1011-R

Material: SUS 304 Stainless Steel 40x40x1.5T

Size: 304



PF-1011-T

Material: SUS 304 Stainless Steel 40x40x1.5T

Size: 304



PFP-04-PLUG Square

Material: SUS 304 Stainless Steel 40x40x1.5T

Size: 304



PF-Flange04

Material: SUS 304 Stainless Steel 40x40x1.5T

Size: 304



PFP-05-PLUG REC

Material: SUS 304 Stainless Steel

Size: 40x40x1.5T

Size: 304



PF-1012-Joint-01

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 6 8 10 12

304



PF-1012-Joint-02

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 6 8 10 12

304



PF-1012-Joint-03

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 8 10 12 18

304



PF-1012-Joint-04

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 6 8 10 12

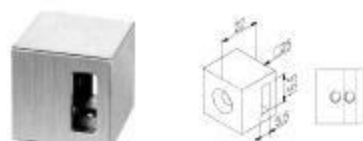
304



PF-1012-Joint-05

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 8 10 12 18

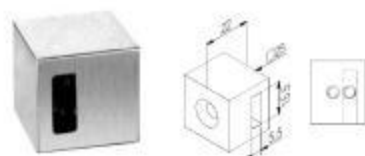
304



PF-1012-Joint-06

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 8 10 12 18

304



PF-1012-Joint-07

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 8 10 12 18

304



PF-1012-Joint-08

Material	Size
SUS 304 Stainless Steel	Ø: 4 5 6 8 W: 8 10 12 18

304



PF-1013-Holder-01

Material	Size
SUS 304 Stainless Steel	Ø: 10 12 16 18 W: 21 23 22.5 24.5

304



PF-1013-Holder-02

Material	Size
SUS 304 Stainless Steel	Ø: 10 12 16 18 W: 21 23 22.5 24.5

304



PF-1013-Holder-03

Material	Size
SUS 304 Stainless Steel	Ø: 10 12 16 18 W: 21 23 22.5 24.5

304



PF-1013-Holder-04

Material	Size
SUS 304 Stainless Steel	Ø: 10 12 16 18 W: 21 23 22.5 24.5

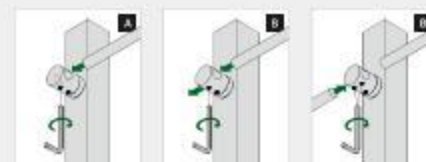
304



PF-1013-Holder-05

Material	Size
SUS 304 Stainless Steel	Ø: 10 12 16 18 W: 21 23 22.5 24.5

304





PFP-06-PLUG Square

Material: SUS 304 Stainless Steel

Size: 18/25/40mm

304



PF-1014-I-Flexible

Material: SUS 304 Stainless Steel

Size: 18/25/40mm

304



PF-Flange05

Material: SUS 304 Stainless Steel

Size: 18/25/40mm

304



PF-Top02-Flexible

Material: SUS 304 Stainless Steel

Size: 18/25/40mm

304



PF-1014-I

Material: SUS 304 Stainless Steel

Size: 40mm

304



PF-1014-90

Material: SUS 304 Stainless Steel

Size: 40mm

304



PF-Top03-Flexible

Material: SUS 304 Stainless Steel

Size: 18/25/40mm

304





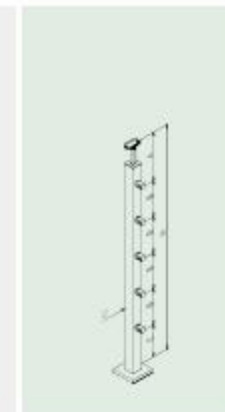
HP950-15

Material
SUS 304 Stainless Steel

Size

Ø	A	B	C	D
42x41.5	210	190	200	950

304 316



HP870-9

Material
SUS 304 Stainless Steel

Size

Ø	A	B	C	D
42x41.5	210	190	210	870
	210	190	210	870

304 316



HP870-8

Material
SUS 304 Stainless Steel

Size

Ø	A	B	C	D
42x41.5	210	190	220	870

304 316

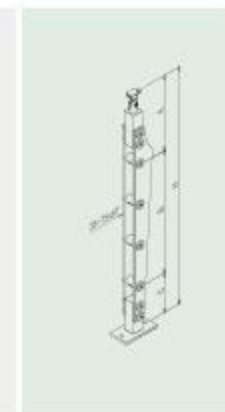
HP870-10

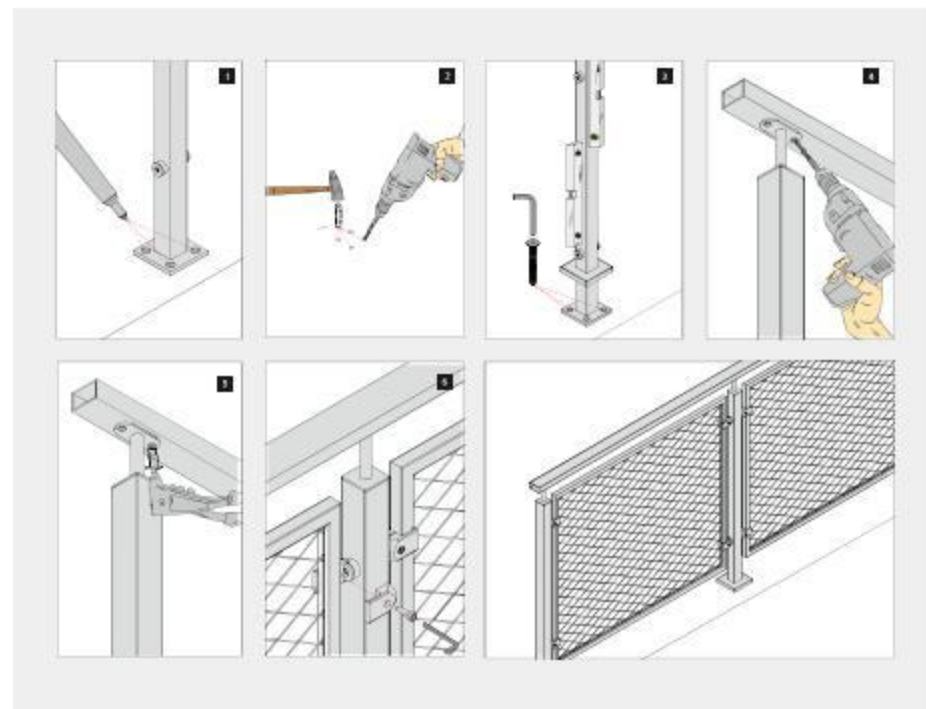
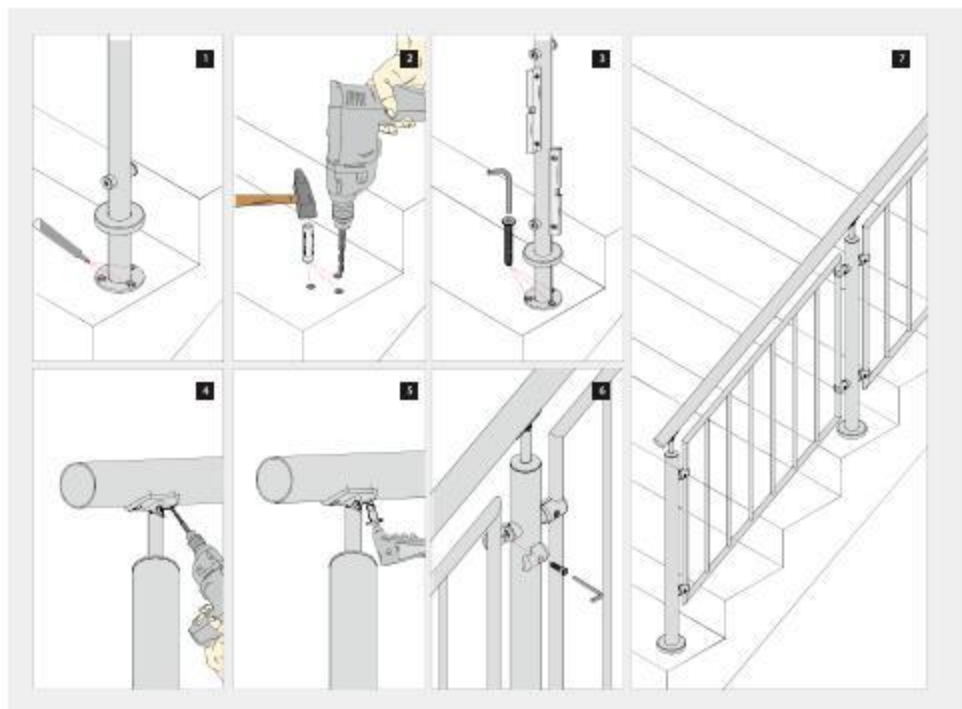
Material
SUS 304 Stainless Steel

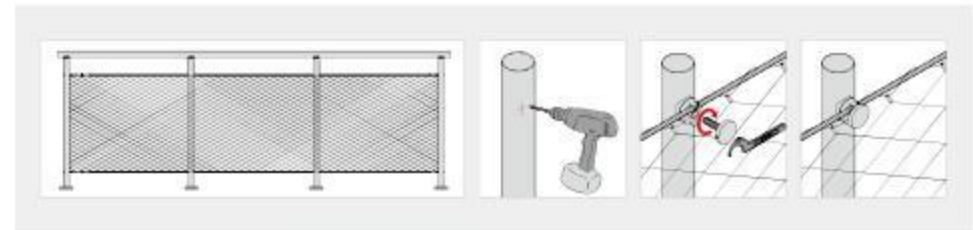
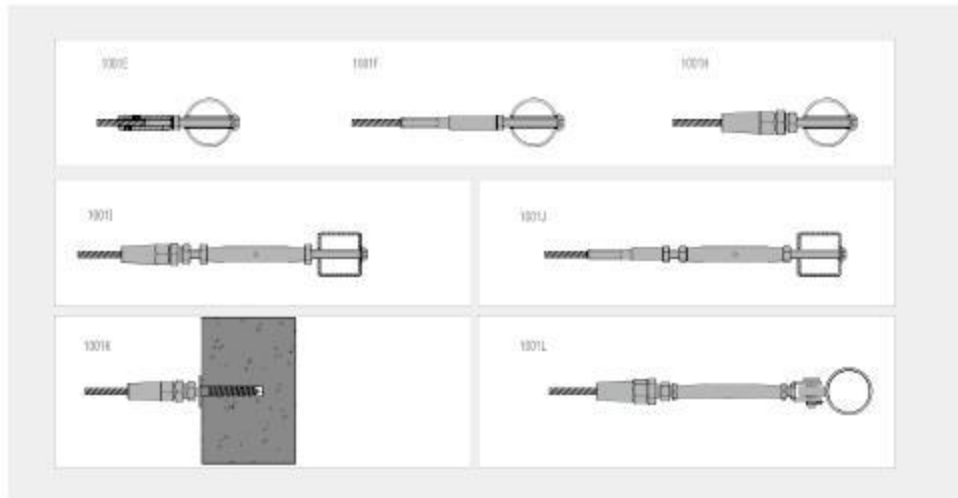
Size

Ø	A	B	C	D
42x41.5	210	190	210	870

304 316







HPA-01

Material
SUS 304 Stainless Steel

Size
ø 10
D: Ø42.4 - Ø48.3 - Ø50.8



HPA-02

Material
SUS 304 Stainless Steel

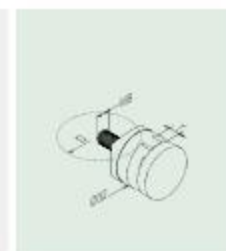
Size
ø 20
D: Ø42.4 - Ø48.3 - Ø50.8



HPA-03

Material
SUS 304 Stainless Steel

Size
ø 16
D: Ø42.4 - Ø48.3 - Ø50.8



HPA-04

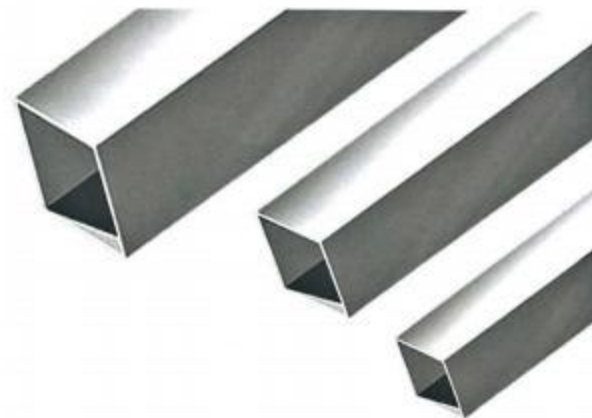
Material
SUS 304 Stainless Steel

Size
ø 16
D: Ø42.4 - Ø48.3 - Ø50.8



FLEX SQUARE COMPONENT

The square tube composed of square balustrades has greater flexibility, making the consistency of the handrail system and different types of media items are elbow corners, columns, etc., can provide **AISI 304** indoor use or **AISI316** outdoor and seaside stainless steel. In addition, there are two choices of fine polishing or drawing.



TUBES SQUARE

AISI 304

Bar in the subway

EPC174IP	Tubes square 10mm polished
EPC174IE	Tubes square 10mm satin
EPC175IP	Tubes square 15mm polished
EPC175IE	Tubes square 15mm satin
EPC152IP	Tubes square 40mm polished
EPC152IE	Tubes square 40mm satin

bar with 6mm

EPC176IP	Tubes square 10mm polished
EPC176IE	Tubes square 10mm satin
EPC177IP	Tubes square 15mm polished
EPC177IE	Tubes square 15mm satin
EPC154IP	Tubes square 40mm polished
EPC154IE	Tubes square 40mm satin

Foto: ambiente com corrimão Flex postes e componentes quadrados



K730

304 316



Powerful die-cast handrail holder Ø50.8 mm



Flat cast plug for pipe Ø50.8 mm

ART.	Length mm	Holders qty	For steps qty
K730-10	1000	2	2,3
K730-15	1500	2	4
K730-17	1700	3	5
K730-23	2300	3	6,7
K730-30	3300	4	9,10
K730-37	3700	5	11
K730-43	4300	5	12,13

Reliable ready-made wall-mounted handrail, which is enough to install on the wall and the railing is ready! This model uses only high-quality cast parts, tested on thousands of objects, and a polished pipe with a mirror surface of 800 Grit. These wall-mounted handrails can be installed on the street, they will retain their original shine and will not rust. Especially for objects with medium and high traffic.

K731

304 316



Hemispherical stamped plug for pipe Ø50.8mm



The wall holder of a hand-rail of Ø50.8mm "house-keeper"

ART.	Length mm	Holders qty	For steps qty
K731-10	1000	2	2,3
K731-15	1500	2	4
K731-17	1700	3	5
K731-23	2300	3	6,7
K731-30	3300	4	9,10
K731-37	3700	5	11
K731-43	4300	5	12,13

Option "Economy" wall grab bar. Also fully ready for wall mounting. Installation is possible only inside dry rooms with medium and low traffic.



Wall safety rail K731-33



Wall safety rail K730-23



The line be drawn the outline of different personality





EPBRACKET-01

Material

SUS 304 Stainless Steel

Ø: 38.1 / 42.4 / 48.3 / 58.8



EPBRACKET-02

Material

SUS 304 Stainless Steel

Ø: 38.1/50.8



EPBRACKET-03

Material

SUS 304 Stainless Steel

Ø: 38.1 / 42.4 / 48.3 / 58.8



EPBRACKET-04

Material

SUS 304 Stainless Steel

Ø: 38.1 / 42.4 / 48.3 / 58.8



EPBRACKET-05

Material

SUS 304 Stainless Steel

Ø: 0

Ø: 13.5 42.4

48.3

58.8



EPBRACKET-06

Material

SUS 304 Stainless Steel

Ø: 0

Ø: 13.5 42.4

48.3

58.8



EPBRACKET-07

Material

SUS 304 Stainless Steel

Ø: 6.37

42.4

48.3

58.8



EPBRACKET-08

Material

SUS 304 Stainless Steel

Ø: 6.37

42.4

48.3

58.8



Installation A



Installation B



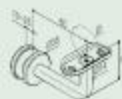
EPBRACKET-09

Material
 SUS 304 Stainless Steel
 W: 38.1 / 42.4 / 48.3 / 50.8
 H: 304 314



EPBRACKET-10

Material
 SUS 304 Stainless Steel
 W: 38.1 / 42.4 / 48.3 / 50.8
 H: 304 314



EPBRACKET-11

Material
 SUS 304 Stainless Steel
 W: 38.1 / 42.4 / 48.3 / 50.8
 H: 304 314



EPBRACKET-12

Material
 SUS 304 Stainless Steel
 W: 38.1 / 42.4 / 48.3 / 50.8
 H: 304 314



EPBRACKET-13

Material
 SUS 304 Stainless Steel
 W: 38.1 / 42.4 / 48.3 / 50.8
 H: 304 314



EPBRACKET-14

Material
 SUS 304 Stainless Steel
 W: 38.1 / 42.4 / 48.3 / 50.8
 H: 304 314



ODM&OEM

Any kinds of **Stainless steel fittings and pipes**



You want:

High Technology And Perfect After-Sale Service Always Provided For You.

- VARIOUS SPECIES
- HIGH QUALITY
- SECURE AND PRACTICAL

Railings and self-assembled railings

3 steps to automatically install railings and railings



Do you want to save your budget and assemble your own fences? In this section you will find all the information on how to choose the type of fences and accessories, how to independently measure the installation site, what tools you need and instructions for the installation process.



STEP 1. SELECTING THE TYPE OF RAILINGS

In order to choose the type of fencing, you need to have a basic understanding of what basic elements it consists of. Also, you need to answer the questions, who will use the fences? If there are children in the house, then give preference to fences with screen-type glass, if you need to equip handrails for people with disabilities, then be sure to choose fences with a double handrail, if it is important to follow the general concept of the interior of the house, then take a closer look at fences with elements of oak, and if you don't want to like everyone else, then choose all-glass fences without racks. For flights of stairs, bounded on both sides by a wall, a handrail fixed to the wall – a wall handrail – is ideal.

Please note that there can be several modifications to the basic structures of fences, for example, fences with glass can be without a handrail at all, and the glass is not necessarily transparent. Also, the number of crossbars can vary from 2 to 5 and even 7.

THE MAIN ELEMENTS OF THE FENCE

- Vertical racks for glass or crossbars or a profile for the installation of glass fencing.
- Handrail, connectors and turns handrail, end of handrail
- Filling between racks: glass, cable, deadbolt or without filling



Fencing with crossbars



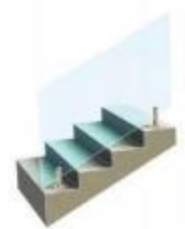
Double handrail guardrail



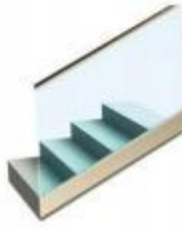
Wall-mounted handrail



Guardrail with glass and posts



Glass railing on mini-stands



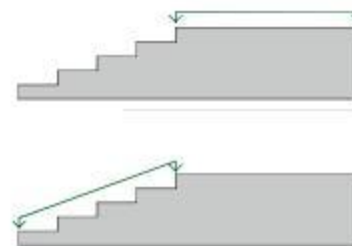
Glass railing without posts



Railings and railings for self-assembly

STEP 2. Measuring the location of the fence

The fence marking technology is based on measuring the length of the handrail. In this case, there are two types of barriers in geometry: straight and inclined. The first includes railings for balconies, pools, upper and lower landings of flights of stairs. To the second - directly the railings of the flights of stairs themselves, including the wall railings.



So, let's get down to measurements: Make a sketch of the staircase, the lower and upper platforms, if we are talking about the fence of the stairs. If you plan to install the fence in one plane, mark the dimensions of the straight sections to the pivot points on the plan. To find out the length of the handrail for an inclined march, it is necessary to measure the distance along the tops of the steps as shown in the figure and add 200 mm to the result obtained on each side for a turn or terminal bend.

If there is no tape measure at hand or the object is far from the measurer, you can calculate the approximate dimensions. So, the approximate dimensions of a standard step: height 150 mm and length 300 mm. Thus, the diagonal of the step (hypotenuse) is 330 mm. On the upper platform, the measurement must be made from the top of the step to the completion of the straight section of the platform or wall, depending on where the end of the structure comes.



ATTENTION!

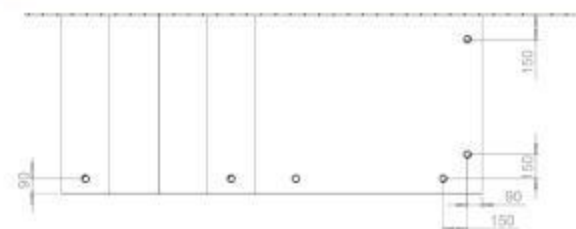
To avoid deflection of the handrail and increase the strength of the structure as a whole, it is recommended to make the distance between the posts no more than one meter.

Since the assembly of prefabricated fences is carried out without the use of welding, to strengthen the structure, we recommend fixing the fence rail to the wall using a special flange.

PLANNING THE NUMBER OF RACKS

On a straight section, the racks are planned as follows: places for the first and last rack are selected, and the distance between them is divided into equal segments (see the figure "Rack planning").

On a flight of stairs, with a standard step width of 300 mm, the racks are planned in two steps. The upper rack is planned for the first step after the platform at a distance of 1/2 step from the edge.



Calculation of the need for crossbars

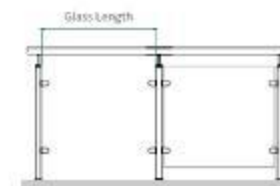
The number of crossbars depends on the rack configuration. In our company, ready-made racks are completed for fences with 2, 3 or 4 crossbars. To calculate the need for a 16 mm pipe for crossbars, subtract 150 mm from the length of the handrail and multiply its number of crossbars. Please note that the 16 mm pipe is supplied in multiples of six meters.

Calculation of glasses

If you have a fencing project drawn by the designer, then glass can be ordered immediately according to the dimensions from the drawings. If there is no such project, then the calculation of the glasses is made after the installation of the railing posts.

Calculation of straight glasses

"Straight" are the glasses that are installed as filling of the posts on straight horizontal sections of the fences. To calculate straight glass, you only need to calculate the length of the glass as described below, and the height for straight glass is recommended no more than 710 mm with a standard height of 890 mm for the railing. Please send the obtained glass dimensions in your application, we will produce glass for you and deliver it along with all accessories.



CALCULATION OF OBLIQUE GLASS STAIRCASES

"Oblique" is the name of the glass, installed as filling of racks on the railing of inclined staircases.

For self-calculation of slanting glass, you need to measure:

- No. 1** Height and length of steps.
- No. 2** Obtuse angle between handrail and rack.
- No. 3** Distance between the posts.

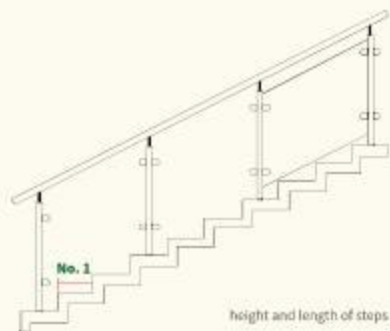
The second option is to pull the face between the extreme posts of the fences and remove the glass templates from plywood or fiberboard.

SKETCH A FLIGHT OF STAIRS

In the sketch, be sure to place the exact number of racks and steps between the racks. Based on this data, the length and height of the glass can be calculated.

MEASURING THE HEIGHT OF THE STEPS

Use a tape measure to measure the height of each step. Mark the resulting data on the sketch. Be sure to control the line of the bottom edge of the glass, it should be above the line of the steps.

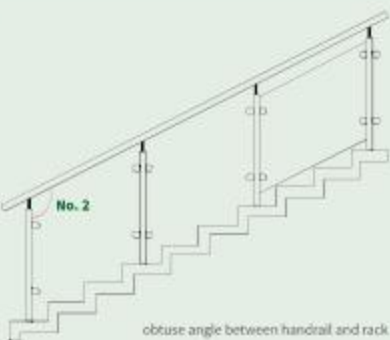


Obtuse angle measurement between handrail and rack

The obtuse angle of the handrail is measured using a protractor. Angle measurement must be made at each rack. To do this, the goniometer is applied to the rack, and its second part is applied to the handrail. Record the data on the sketch of the staircase.

Calculating the length of the glass

Measure the distance between the posts. It is necessary to measure the distance from the rack to the rack at a right angle. Subtract 25 to 35 mm from the resulting distance, depending on the type of finished rack. You can get the exact information from the manager of the parts sales department. Record the data in a sketch. After that, you should start measuring the distance to the next rack and so on until the end of the flight of stairs.



Calculating glass height

With standard step sizes (height 150 mm and length 300 mm) the angle between the handrail and the post is 117°, for this angle the glass height is recommended to be 650 mm.

Several sizes of glass height

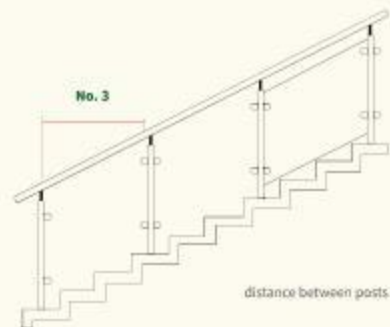
Depending on the angle of the handrail:

- at an angle from 107° to 114° the glass height is 680 mm
- at an angle from 114° to 120° glass height is 660 mm
- at an angle from 120° to 130° glass height is 635 mm

Downward, the height of the glass is determined at your discretion, but not less than the height of the glass holders plus 100 mm. For convenience, number the segments according to the number of distances between the posts and assign the numbering to the glasses.

Measurement data

Now you have all the necessary data for ordering components for your future fencing. Just send all schemes with dimensions and the number of components to us by e-mail, indicating the type of fencing you have chosen.



STEP 3. Installation

Before starting the installation, make sure you have all the necessary tools and consumables.

Look in the section "Tools and consumables" on page 72 and order the necessary items from the catalog - no need to waste time traveling to hardware stores, you can buy everything from us.



Installing racks

The standard distance from the center of the rack to the edge of the landing or staircase should be at least 90 mm (see the figure for planning the racks in the "Measurement" section).

Types of rack attachment depending on the surface material:

- Dowel** - for installing flanges in concrete or brick.
- Anchor** - for installing the base of the posts in concrete, Himanker - for hollow structures.
- Capercaille** - for fastening the rack flange to the wooden base of the step or floor.

Distribute the posts in two steps along the fence line, orienting them so that the waier holders or glass holder covers are facing the inside of the run. After that, fasten the first and last post to the mounting method of your choice and install the handrail on them. After installing the handrail, install and fix the rest of the posts according to their distribution at the points of contact between the handrail and the post. The post can be displaced from the center of the step - this can happen if the steps of the stairs have different depths and heights.

Installation of a handrail

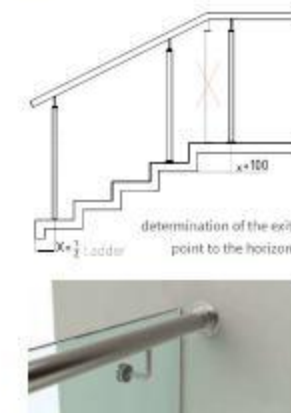
The flange is part of the rail structure that allows the handrail to be anchored to the wall. To find out where the flange is attached, rest the handrail lying on the rack lodges against the wall and circle the handrail with a marker. Then mount the flange into the wall using your chosen mounting method.

Place the handrail on the post holders and insert it into the flange. Then, using a marker, through the holes on the end caps of the posts, mark the handrail for drilling the holes. Remove the handrail and drill the holes. Be careful, drilling holes on a convex surface is difficult and dangerous. After drilling the holes, align them with the holes on the end caps and fix the handrail to the uprights of the straight section.

The exit point to the horizon is the intersection of the oblique and straight handrails. The handrail connection at this point is made by turning.

How to determine the exit point to the horizon, see the figure "Determining the exit point to the horizon". To secure the handrail on the bevel, turn it into a turn and mark the drilling points. In the same way as in the straight section, drill the holes and attach the handrail to the lodgements of the tips of the posts by one self-tapping screw from the obtuse corner.

Then detach the lodgements from the handpieces using a hexagon, remove the handrail and tighten the missing screws. After that, screw the handrail with the lodgment with hexagons back to the ends of the posts. Install an end elbow at the end of the handrail.



INSTALLATION OF INFILL BETWEEN POSTS

Installing the bolt

To install the bolt on the posts, it is enough to pass the tube into the standard hole of the bolt holder and fix it with a 1.5 mm hexagon from the k940 or k931 set. Install caps at the ends of the crossbars.



Glass installation

To install the glass you will need the help of a second person and a special "suction cup" tool for glass k903. Remove the cover from the glass holders using a hexagon. Check that in the removed and in the mating part of the glass holders there are rubber bands that will securely hold the glass. Place the glass between the uprights and in turn install the counterparts of the glass holders in place, tightening the fasteners with a hexagon. After the glasses are installed, check if the upper edge of the glass is straight. You can adjust the height of the glass by loosening the fasteners in the glass holders, but it is important to hold the bottom edge of the glass to prevent it breaking.

If you have any problems with self-installation of fences, you can order a service of installation of fences in our company.

This year we have also added a handrail made of wood to our product range. The warehouse program is oak handrails. On request, we can make a handrail made of beech or ash. In addition to the round handrail, we can offer handrails with other sections. These handrails are also made to order. Standard handrail lengths are 2, 3, 3.5, 4, 5 meters. Oak is delivered spliced, not painted, not varnished.

On an individual order, we can tint an oak handrail according to your sample, mill and produce a handrail of non-standard length.

Fittings for a plastic handrail are used for turns and connections of an Ø49mm oak handrail. The turns can be made to the sectors of the F-0343 wooden handrail by cutting the bagel to the desired angle: 45, 92, 125 or any other degree. You can make turns and metal turns k259, attaching them to self-tapping screws M-0902.

Plastic handrails are in demand in cases where shiny stainless steel handrails do not fit in design, and the operating features or budgetary constraints do not allow making handrails from natural wood. The colors of the plastic handrails simulate the texture of wood.

The plastic handrail can be radially bent with the k942 thermal sleeve. Having warmed up to the core, the plastic handrail loses its rigidity and can easily be laid on a spiral staircase or bent when cornering.

All fittings for plastic handrail k260, k259, k053 have 2 holes. With the help of these holes, both pieces of the handrail are joined to each other with self-tapping screws M-0902.



k891 Plastic handrail, Oak color, Ø49mm, Length 4m

k893 Plastic handrail, White, Ø49mm, Length 4m

k894 Plastic handrail, Alder color, Ø49mm, Length 4m

k895 Plastic handrail, Mahogany, Ø49mm, Length 4m

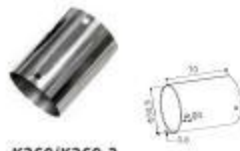
k897 Plastic handrail, Wenger, Ø49mm, Length 4m

k899 Plastic handrail, Bleached Oak, Ø49mm, Length 4m

k892 Plastic handrail, Black, Ø49mm, Length 4m



K259
Technical
90 degree swivel for round plastic handrail



K260/K260-2
Technical
Connector for round plastic handrail



K083
Technical
Wooden handrail plug Ø49 mm



Φ-0681
Technical
Gray plastic handrail 49x4mm, width 2m



K942/K942-2/K942-3
Technical
Thermal cover for heating plastic handrails (1 meter, 4 meters, 2 meters)



K380
Technical
350 degree wooden segment Ø19 (bagel) oak for turning the handrail to the desired angle



Φ-0842
Technical
Spherical wooden plug Ø50mm



Φ-8401
Technical
Handrail painting in color from the catalog



Assortment of round, unpainted wooden handrails d.49mm:

- Φ-1662 - oak Ø49mm x 2.0m
- Φ-1663 - oak Ø49mm x 3.0m
- Φ-1668 - oak Ø49mm x 3.5m
- Φ-1664 - oak Ø49mm x 4.0m
- Φ-1665 - oak Ø49mm x 5.0m



Beech handrails:

- Φ-1612 - beech Ø49mm x 2.0m
- Φ-1613 - beech Ø49mm x 3.0m
- Φ-1618 - beech Ø49mm x 3.5m
- F-1614 - beech F49mm x 4.0m
- Φ-1615 - beech Ø49mm x 5.0m



Ash handrails:

- Φ-1632 - ash-tree Ø49mm x 2.0m
- Φ-1633 - ash-tree Ø49mm x 3.0m
- Φ-1638 - ash-tree Ø49mm x 3.5m
- Φ-1634 - ash-tree Ø49mm x 4.0m
- Φ-1635 - ash-tree Ø49mm x 5.0m



Services:

- F-8401 - painting the handrail in color according to the catalog
- F-8411 - painting the handrail in color according to the sample
- F-8421 - milling a groove for glass or lighting in a wooden handrail
- F-8451 - splicing a round handrail into a handrail arbitrary length (up to 8m)



K066
Technical
Handrail holder Ø50.8mm, extended with grip



K379
Technical
Stainless steel connecting ring for wooden handrail polished 32mm



K022
Technical
Wall-mounted flange for wood or plastic handrail



K094
Technical
Shortened wall flange for wood or plastic handrail



K053-5
Technical
Rotation of the wooden / plastic handrail ball for Ø49 mm x 0.4 mm



K053-4
Technical
Rotation of the wooden / plastic handrail ball for Ø49 mm x 0.8 mm



K053-2
Technical
Swivel wooden / plastic handrail, ball for Ø50.8 mm x 0.4 mm



K234-2
Technical
Wall-mounted cast wooden handrail holder with cradle



People

/

Community

The combination of art
and living



OEM&ODM EXPORT
SINCE 1997

Any kinds of

Stainless steel fittings and pipes



HPS-01



HPS-02



HPS-03



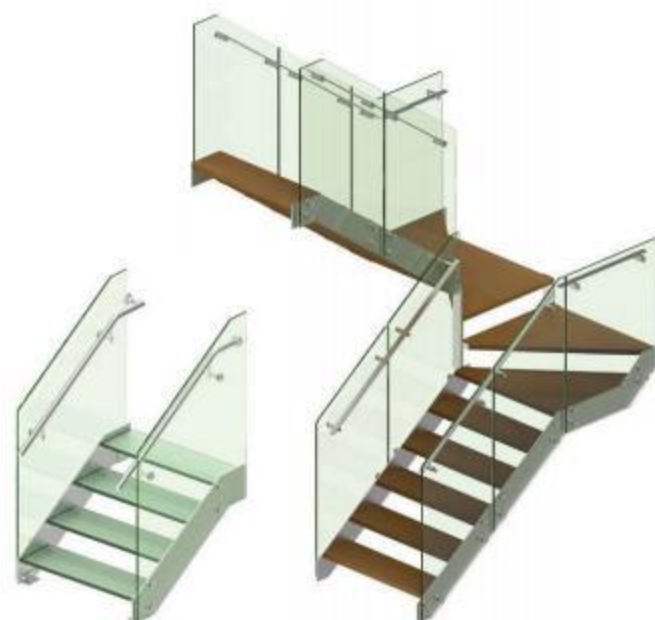
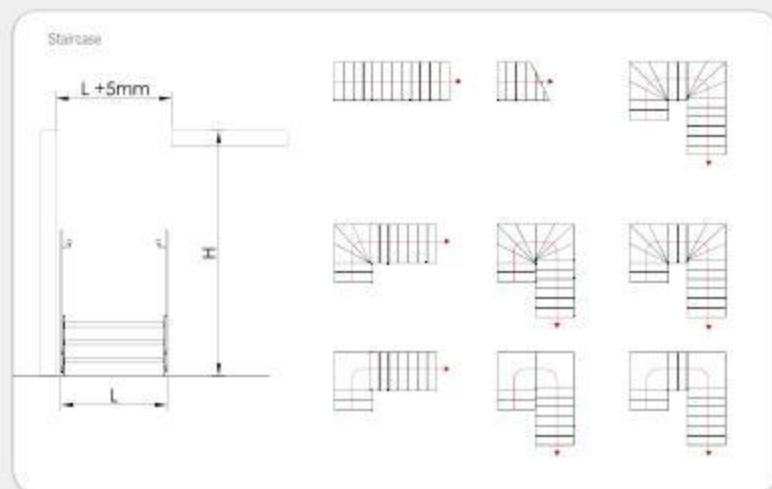
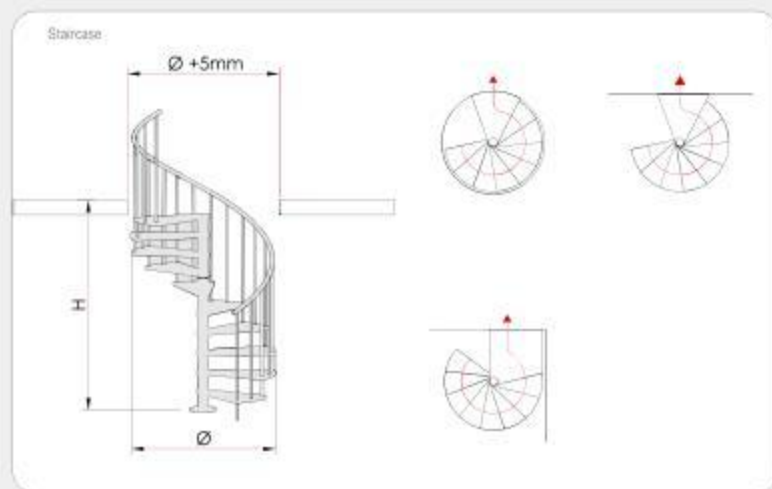
HPS-04

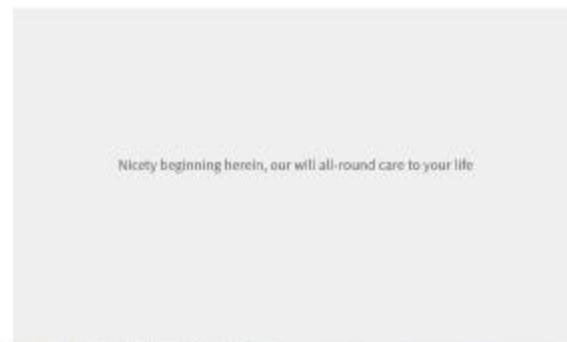


HPS-05



HPS-06





Extension of a natural and comfortable noble temperament



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GUARANTEE CLAUSE-HANDRAIL

All of the **FIEX** armrests produced by the company are subject to strict quality control and the products produced are guaranteed to meet the **AISI304** material standards. Products purchased through regular channels provide a **two-year** warranty on manufacturing defects from the date of purchase.

This warranty does not apply to the following:

- ① An accidental fall caused by damage to the product, ill, beaten, mishandled, incorrect and wrong installation specifications.
- ② The surface finish of the prevented stainless steel product is damaged and there is no regular cleaning and maintenance, especially in hostile environments such as coastal areas and nearby swimming pools (salt mist) (chlorine) in coastal areas and in the necessary cleaning parts. Environment **twice a week**, in other types of environments, at least **once a week**;
- ③ For stainless steel that has been damaged by surface treatment, use cleaning tools such as chemicals, solvents, abrasive steel wool, sponge double-sided chlorine, etc.;
- ④ Damage caused by pollution of stainless steel acid gas, such as hydrochloric acid or similar clean floor, or through direct contact with stainless steel pollutants, such as: lime mortar filling, iron deposition on the product, may contaminate the oxidation caused by stainless steel;
- ⑤ Missing parts and parts;

IMPORTANT INFORMATION

We recommend installing the armrests after the end of the work. This avoids the breakdown of possible faults and other problems to ensure that the same problem is solved. Propose the parts that need to be supplemented, effectively raise the questions and solve the problems. It is the responsibility of the user to store and transport: there is no guarantee responsibility and the consumer will be very pure.

CLEANING AND MAINTENANCE

The best products in order to keep stainless steel are water, alcohol, and mild neutral detergents. After diluting with warm water, use a soft cloth. Rinse off with water, preferably a warm, dry, soft cloth. In harsh environments, such as in coastal areas, cleaning should be done at least twice a week. In the most active environment, at least once a week.

James Lam
Epai CEO