



# PRODUCT CATALOG

*China FRP Profiles & Gratings*

Brochure for

## FRP Insulation ladders

*Professional Composite Manufacturer & Solution Designer*

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## 03. Insulation Ladders

### Non-Slip in Chemical and Power Fields

**FRP insulation ladders** are used to glass fiber and epoxy resin as the main material and pull extrusion molding of glass fiber reinforced plastic profile.

FRP insulation ladders have the advantages of high strength, corrosion resistance, beautiful appearance and good electrical properties. They are widely used in electrical power and chemical industry, etc.



In addition, FRP insulation ladders have four types as follow.

### Available Mount type



**FRP Insulating Single Straight Ladder**



**FRP Step Ladders**



**FRP Extension Ladder**



**FRP Folding Ladders**



## FRP Single Straight Ladder

- Light weight. *Easy to carry or move.*
- Red rung reminding the height limit. *In order to remind and guarantee safety.*
- High strength. *Braces provide more supporting.*
- Rails use FRP rectangular tubes. *High quality fiber glass tubes provide higher strength and surface.*
- Non-slip. *Full wrapping design rubber ladder feet.*



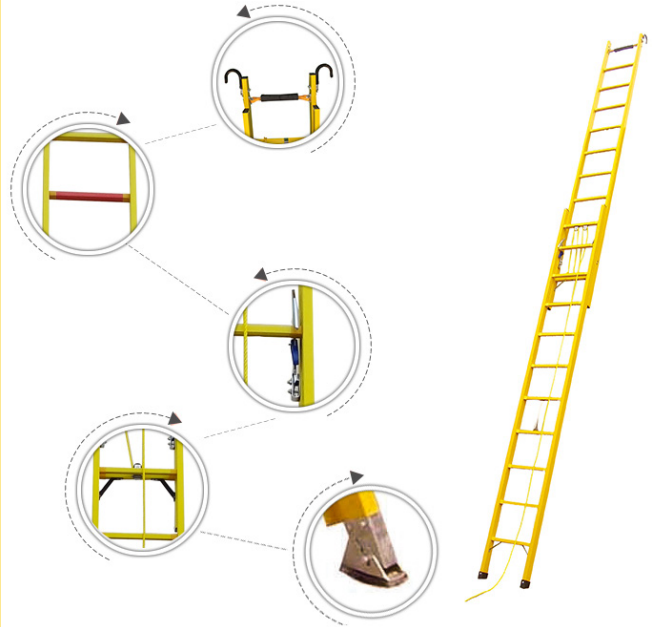
## FRP Step Ladder

- Multi function top plate. *A place for parts and tools.*
- Remind the height limit. *Gray rung reminds you do not stand above this step.*
- High strength braces provide more supporting.
- Anti-slip. *Full wrap type rubber ladder feet.*



## FRP Extension Ladder

- **Non-slip and weather-proof.** *Non-slip belt to lean on the pole made by special rubber, and safety hook wrapped by non-slip rubber.*
- **Red rung reminding the height limit.**  
Wear resistant. *Pulley made of wear-proof nylon, bearing inside of pulley to ensure smoothness when up and down. And fixed dip made of*
- **high-strength steel plate by stamping.**  
*High strength and wear resistant insulating rope.*
- **Adjustable iron non-slip ladder foot.**



## FRP Folding Ladder

- **High quality joint device, flexible to use with stable performance.**  
*Multiple joints can be used for many purposes*
- **Anti-slip.** *FRP square tube steps are non-slip and can be moved safely. And anti-slip full wrapping design rubber foot.*
- **The joint can 180° adjust.**
- **High strength and non-conductive.**



## Associated Profiles

- **Side rail.**
  - Square tube.
  - Rectangular tube.
- **Ladder rung.**

## Applications

FRP insulation ladders have the characteristics of corrosion resistance, non-conduction, UV protection and anti-aging. These help it apply in the following fields as uphill tools.

- Chemical industry.
- Electrician.
- Building & Construction.

## Common Specifications

### Common Specification of FRP Single Straight Ladder

Item	Full Length (m)	Weight (kg)	Width (cm)	Maximum Use Height (m)	Rated Load (kg)	Ladder Spacing (mm)	Voltage Level (kV)
FRPSSL-01	1.5	3.5	43	2.87	100	300	0-220
FRPSSL-02	2	5	43	3.36	100	300	0-220
FRPSSL-03	2.5	6	43	3.55	100	300	0-220
FRPSSL-04	3	7	43	4.04	100	300	0-220
FRPSSL-05	4.5	9.5	43	4.52	100	300	0-220
FRPSSL-06	4	11	43	4.99	100	300	0-220
FRPSSL-07	4.5	14	43	5.48	100	300	0-220
FRPSSL-08	5	17.5	43	5.9	100	300	0-220
FRPSSL-09	6	21.5	43	6.93	100	300	0-220



Chemical Process



Electricity & Power



Building & Construction

## Common Specifications

### Common Specification of FRP Step Ladder

Item	Tread Width (mm)	Full Length (m)	Weight (kg)	Maximum Use Height (m)	Load Weight (kg)	Voltage Level (kV)
FRPSL-01	440	1.5	10	2.9	100	0-110
FRPSL-02	440	2	12	3.4	100	0-110
FRPSL-03	440	2.5	15	3.6	100	0-110
FRPSL-04	440	3	19	4	100	0-220
FRPSL-05	440	3.5	22	4.5	100	0-220
FRPSL-06	440	4	25	5	100	0-220
FRPSL-07	440	4.5	30	5.5	100	0-220
FRPSL-08	440	5	35	5.9	100	0-220
FRPSL-09	440	6	41	6.9	100	0-220

### Common Specification of FRP Extension Ladder

Item	Full Length (m)	Weight (kg)	Maximum Use Height (m)	Retraction Length (m)	Rated Load (kg)	Ladder Spacing (mm)	Voltage Level (kV)
FRPEL-01	4	18	4.9	2.5	100	300	0-220
FRPEL-02	4.5	20	5.4	2.75	100	300	0-220
FRPEL-03	5	22	5.9	3	100	300	0-220
FRPEL-04	6	24.5	6.9	3.5	100	300	0-220
FRPEL-05	7	29	7.9	4	100	300	0-220
FRPEL-06	8	31.5	8.8	4.5	100	300	0-220
FRPEL-07	9	40.75	9.8	5	100	300	0-220
FRPEL-08	10		10.8	5.5	100	300	0-220
FRPEL-09	11		11.75	6	100	300	0-220
FRPEL-10	12		12.7	6.5	100	300	0-220

### Common Specification of FRP Step Ladder

Item	Full Length (m)	Folding Length (m)	Step Space (mm)	Step Width (mm)	Usage Angle (°)	Max. Load (kg)
FRPFL-01	3	1.5	330-400	35	75	100
FRPFL-02	4	2	330-400	35	75	100
FRPFL-03	5	2.5	330-400	35	75	100
FRPFL-04	6	3	330-400	35	75	100
FRPFL-05	8	4	330-400	35	75	100





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