



PRODUCT CATALOG

China FRP Profiles & Gratings

Brochure for
FRP Fixed Ladders

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01. FRP Fixed Straight Ladders

for Chemical and Electrical Power Plants

Fiber-Reinforced Plastic (FRP) fixed ladders are produced by high temperature polymerization pultrusion process.

Standard FRP fixed ladders can be used up to 20' without safety cages.

The FRP fixed straight ladders are floor, equipment or wall mounted for best fixation and stability.

FRP ladders have excellent chemical and corrosion stability and insulation performance. Thus, FRP fixed ladders are widely used in chemical, marine and other corrosive industrial as well as electrical power engineering.



Materials of FRP fixed Ladders

All materials of FRP fixed straight ladders including side rails and ladder rungs are made of high quality fiberglass material with VE or epoxy reins.

- **VE reins.** Excellent abrasion resistance, good hardness and outstanding corrosion and chemical resistance.
- **Epoxy rein.** Best insulation performance among all rein types. It is ideal for electrical power engineering.

Production of FRP Fixed Ladders

The fixed straight ladders are composed of pultruded FRP profiles. The ladder rungs are insert into side rails. And rung to side rail connections are bonded and pinned with a dowel rod to prevent any possibility of rung rotation and pullout.

Available side rail type

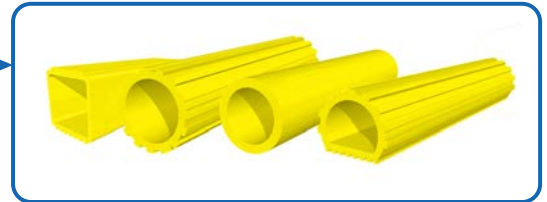
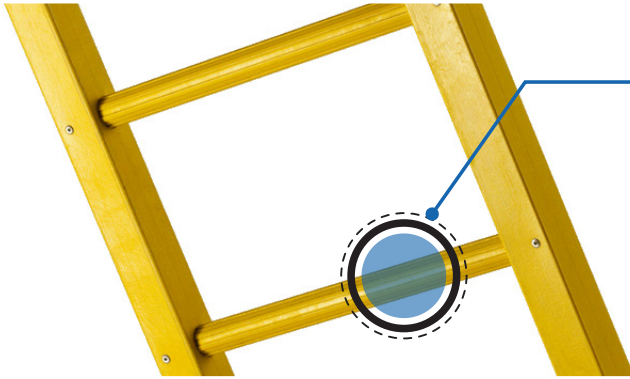


Square Tube Rail



Rectangular Tube Rail

Available ladder rung type



Gear tube and other customized ladder rungs for anti-slip and safety protection.

Available Mount type



Standard floor mounting



Heavy duty floor mounting



Standard wall mounting



Heavy duty wall mounting

Customized types

- **Ladder with grab stile.** It is deal for places where there is a requirement for extra security above 1.5 m.
- **Ladder with return.** It is designed to provide access to roof areas and other platforms. It also features walk-through hand railing and a return ladder to assure safe access.



Ladder with grab stile



Ladder with returns

Features

- *Anti-slip ladder rungs. Fluted surface of ladder rung increase friction and supply anti-skid surface for workers.*
- *OSHA standard. All the FRP fixed straight ladders are accordance in OSHA standards.*
- *Ultraviolet (UV) resistance. UV inhibitor additives ensures stable property of FRP ladder even being exposed into burning suns.*
- *Flame retardant.*
- *High strength.*
- *Corrosive and chemical resistance.*
- *Little or free maintenance.*

Applications

Fiberglass fixed straight ladders can be used in high corrosive environments even in complete immersion applications.

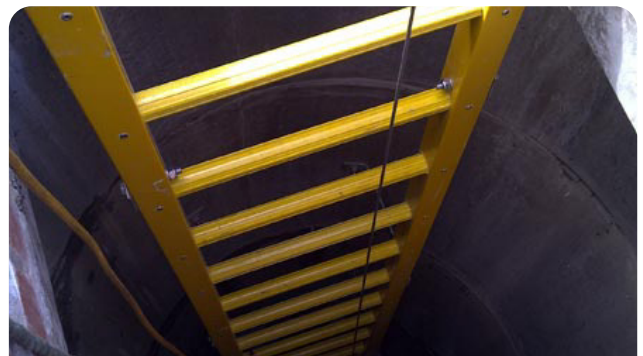
Good insulation performance make it ideal for electrical power engineering.

Fiberglass straight ladders mounted on the side of tanks and buildings are a common and widely used ladder type in a wide range of corrosive and electrical related industries.

- *Chemical plants.*
- *Manufacture.*
- *Transportation.*
- *Water and Sewage Water.*
- *Electrical power engineering.*
- *Fire protections.*
- *Paper industry*
- *Food processing plants*
- *Smelters*
- *Ore Mountain*
- *Saltworks*
- *Nuclear power plants*



**FRP fixed ladders
for platform access**



**FRP fixed ladder for
deep well access**



**FRP fixed ladder for
roof access.**



**FRP fixed ladder for
tank access**



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