



**FIBERGLASS HANDRAIL, STAIRWAY & LADDER**



## FIBERGLASS HANDRAIL & STAIRWAY SYSTEMS



AERON Hand Rail Systems offer now various solution for different situations. All systems are designed and tested according to the relevant standards. Systems are designed to satisfy both the End User in terms of performance as well as the Contractor in term of ease of installation and costs.

### We provide :

- » Design/costing services
- » Applicable test certificates
- » All components in kit form
- » Site supervision if required

### Advantages of AERON FRP Handrail Systems:

- » Modular for ease of installation
- » Lightweight to increase tempo of installation
- » Strong enough to take load
- » Corrosion resistant
- » Thermally non conductive - Perform well in subzero temperatures
- » Fire Retardant
- » UV Protection
- » Electronically Transparent

### Applications :

- » Bridges & Highways
- » Chemical Industries
- » Commercial Complex
- » Metals & Mining Industries
- » Microelectronics
- » Offshore & Onshore
- » Oil & Gas
- » Power
- » Paper & Pulp
- » Telecommunication
- » Water & Wastewater
- » Transportation
- » Power & Many More.

### Material :

Fibre Reinforced Composites

### 3 Systems available :

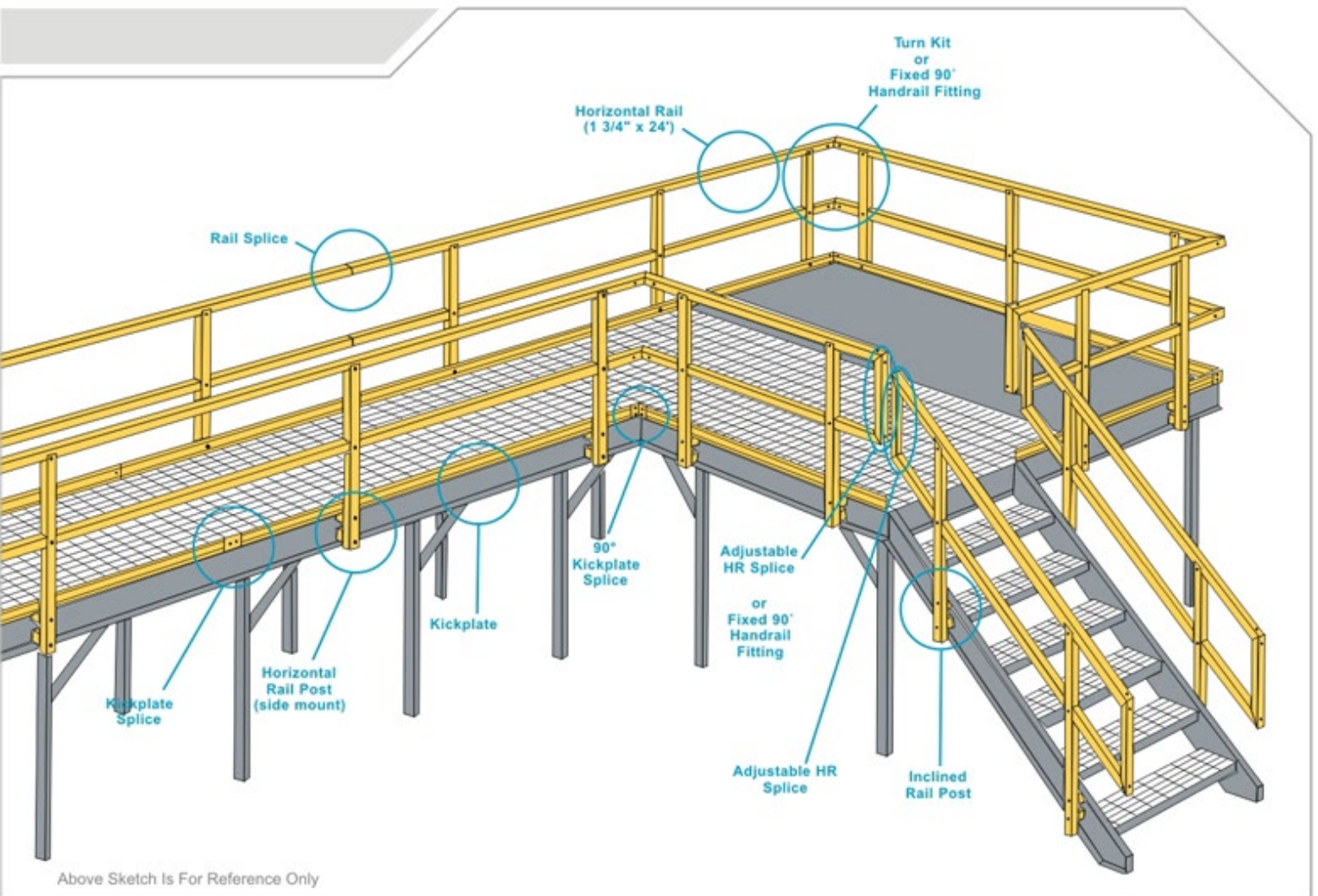
Heavy Duty  
Standard Duty  
Economy





# FIBERGLASS HANDRAIL & STAIRWAY SYSTEMS

Both horizontal and inclined posts and rails are permanently joined using rivets and an epoxy compound. AERON modular rails can be set at any angle to the post, from 39° to 180°, using supplied cover plates. Straight splice kits are equally easy to incorporate, joined by either a riveted connection or a nut and bolt assembly. AERON modular posts are designed for conventional side mounting, and kits are also available for installation of either top mount stanchion bases or removable concrete-embedded bases.



## Handrail configuration

All systems comprise of the following basic elements:

- » Hand rail
- » Knee rail
- » Toe plate
- » Stanchion
- » Floor fixing mechanism
- » Connectors/splice sections

## Design Criteria

AERON Handrail Systems are designed and tested for applicable Standards.

## Basic Design parameters include :

- » Max stanchion centre to centre spacing of 1500 mm.
- » Min height above walking surface of 1100mm.
- » A minimum service load of min=300N/m x max distance (m) between stanchions

## Order details required :

- » General layout drawing or sketch
- » Mounting preference: side mounted, top mounted or imbedded.
- » **Colour** : Normally yellow or grey
- » Hand rail height
- » Design criteria





## FIBERGLASS HANDRAIL & STAIRWAY SYSTEMS

### Other Applications Of Handrail & Ladder

AERON has always focused on providing good solutions to various industrial applications.

### Crossover

This application is very common in industry having long conveying lines. Crossover helps to shorten distance to travel across the conveying lines. Additional platform can also be designed as standing area.

### Elevated Ramp With Handrails

It is always relaxing to have ramp instead of stairs when there is no constraint of available space. Ramps are advisable to the entry and exits of stores where materials are shifted in/out with the help of manual fork trolleys.

### Guard Rails

AERON Guard Rails are 100% modular and easy to use. We manufacture customized handrail and conveyor/ machine safety guards that are light weight, corrosion resistant and complying industry standard. Our products are easy to remove for access and cleaning purpose.

### Mobile Check Post

Mobile Check Post is a simple yet very helpful application. It is widely preferred as temporary Vehicle Check Post, surveillance aid at exhibitions, funfairs, conventions, public get-to-gathers, beaches, airports, traffic area etc.



# ASSEMBLY & MOUNTING DETAILS FOR HANDRAILS



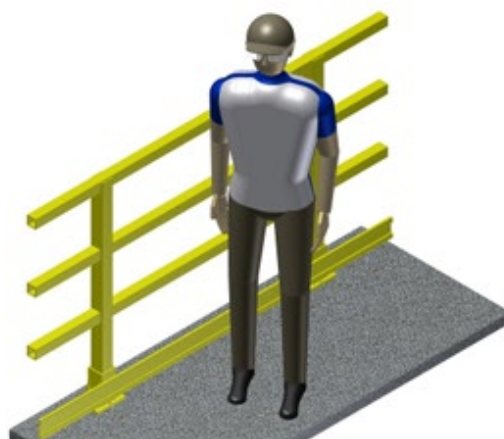
ASSEMBLY MODEL : ASH-101



ASSEMBLY MODEL : ASH-102



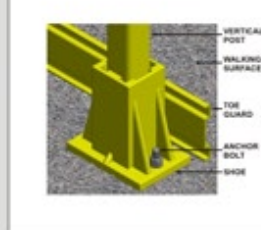
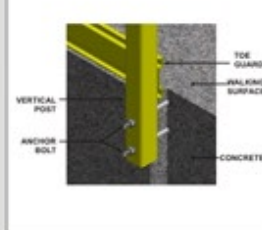
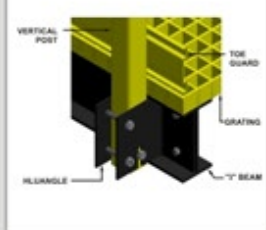
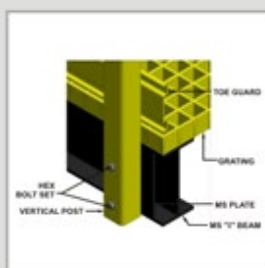
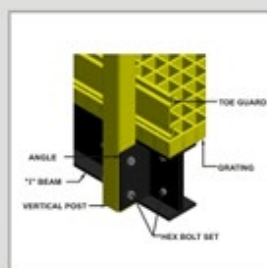
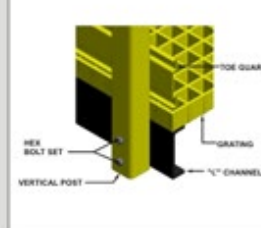
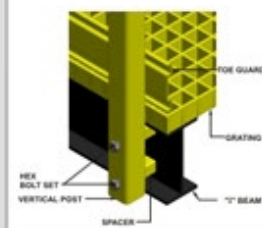
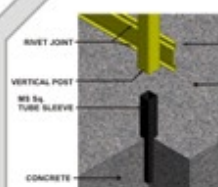
ASSEMBLY MODEL : ASH-103



ASSEMBLY MODEL : ASH-104

CONTACT OUR SALES TEAM  
FOR CUSTOMIZED SPECIFICATION

## VERTICAL POST MOUNTING DETAILS







## FIBERGLASS SAFETY LADDERS

The innovative AERON fiberglass reinforced plastic (FRP) safety ladder and cage system meets or exceeds OSHA requirements. AERON cage components are shipped in compact kit form - not large, bulky units prone to damage. The safety cage is ready for field assembly with predrilled hoops for fast and easy attachment to the ladder and vertical safety bars.

### Safety First

Safety features are built in from the ground up. Special clip angles have been developed to securely anchor the ladder. Intermediate stand-off brackets laterally stabilize the ladder to the supporting structure on 6' centers. Ladder rungs include heavily serrated flutes for slip resistant footholds.

### Durable FRP Construction

Standard AERON ladders and cages are manufactured with ISOFR pultruded structural shapes. This creates a lightweight ladder system offering long life and low maintenance service and fire protection.

### Custom Solutions

In addition to AERON standard ladder cage configurations, special details can be custom fabricated. These include single or double side dismounts to platforms, special stand-off distances, self-supporting returns and handrail connections for additional worker safety.



# FIBERGLASS LADDERS (INDUSTRIAL AND DOMESTIC USE)

Aeron designs different type of ladders which can be used for Industrial as well as domestic use.

## Types of Ladder



**Self-Supported Step Ladder**



**Self-Supported Step Trestle Ladder**



**Wall Supported Ladder**



**Self supported Platform Ladder**



**Extension Ladder**



**Manhole Ladder**



**Industrial Step Stand**



**Mobile Maintenance Platform Ladder**



**Mobile Platform Ladder**



**Mobile Telescope Platform Ladder**



**Mobile Telescopic Platform Tilttable Ladder**



**Fiberglass Safety Caged Ladder**





**Fiberglass  
Cable Tray**



**Fiberglass  
Structural Profiles**



**Fiberglass  
Ladder**



**Trefoil Clamp**



**Fiberglass  
Handrails**



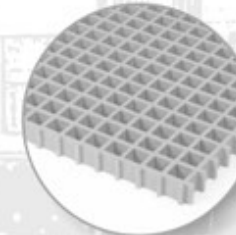
**Fiberglass  
Pultruded Gratings**



**Fiberglass  
Canopy**



**Fiberglass  
Fencing**



**Fiberglass  
Molded Gratings**



**Fiberglass  
Poles & Mast**



THE COMPOSITE EXPERT...

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