

# How It Works - Complete Your Project in 2 Easy Steps

## Use Layout Planner

Use our Layout Planner to measure and draw out your space to determine the amount of balustrade you require.



### Select your Style

- Horizontal Tube
- Cable
- Glass
- Side Wall Mount Handrail

### Select your fixing Options

- Post fix
- Thread fix
- Side fix
- Core drill

### Select your installation

- Staircase & Landing
- Balconies
- Side Wall Mount Handrail



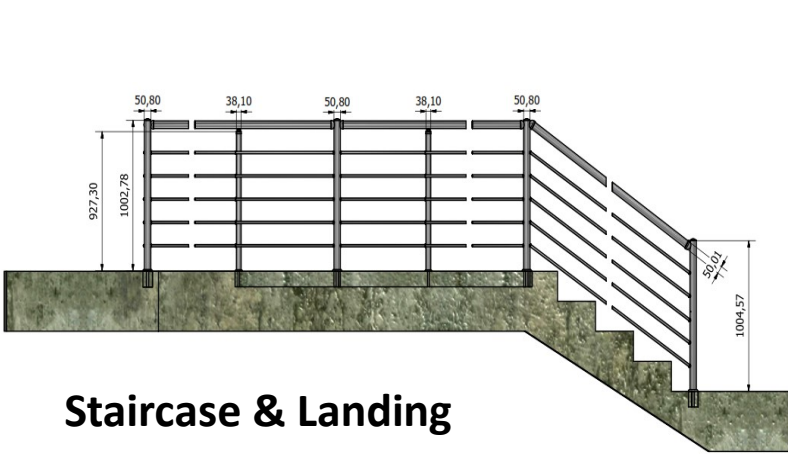
Custom designed orders to be forwarded by email to:

[sales@ezrails.co.za](mailto:sales@ezrails.co.za)

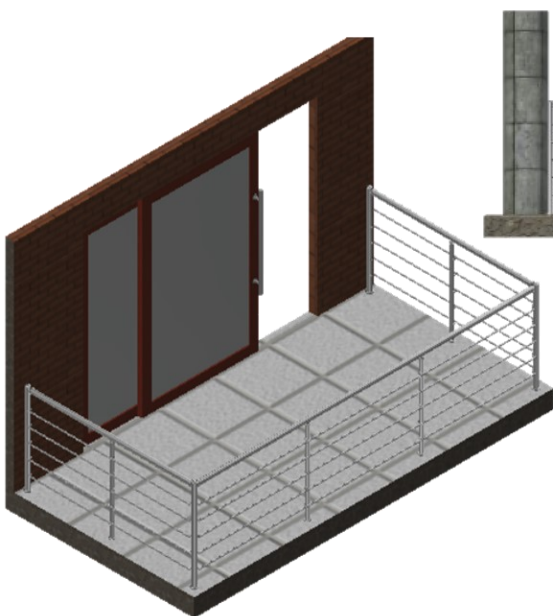
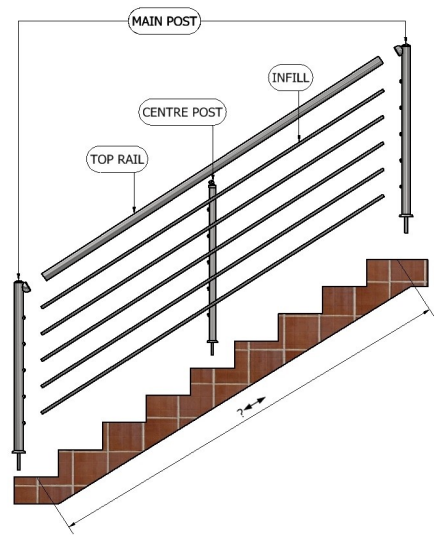
# How the systems works

By using separate area sections within the drawing pad in order to make easy quote reference to supply & Installation process.  
Example: Main staircase and landing area, and Balconies can have many different areas to your project. Please do not over clutter the drawing pad by adding all the areas on 1 drawing pad.

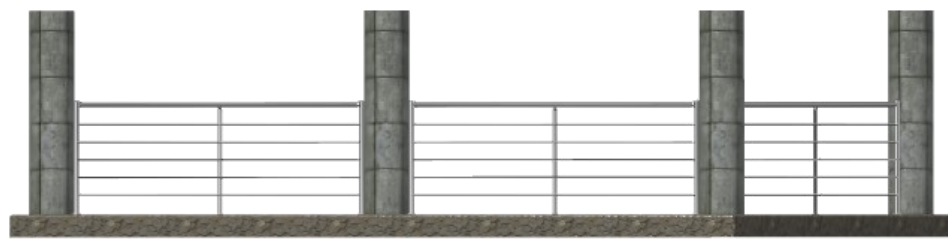
The system is fully automated to calculate all your balustrade supply items by only using the tools to determine accurate layout and supply.



**Staircase & Landing**



**Open Balcony**



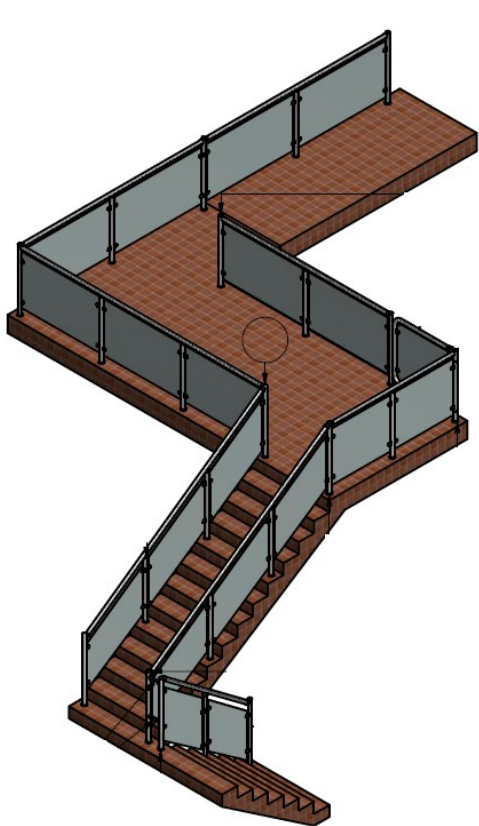
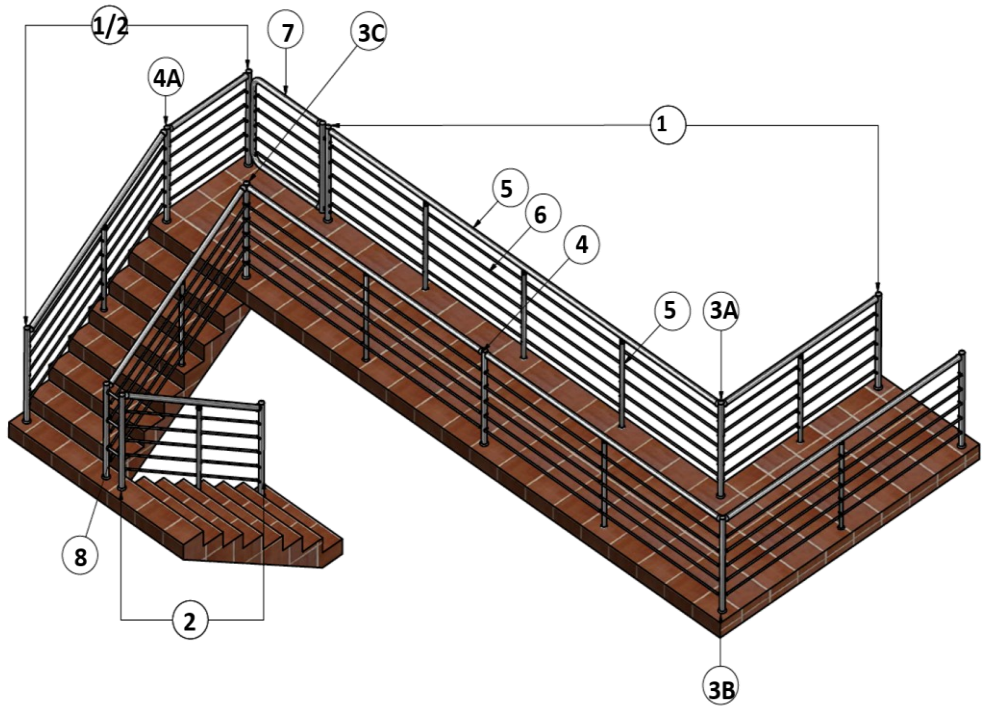
**Column Balcony**



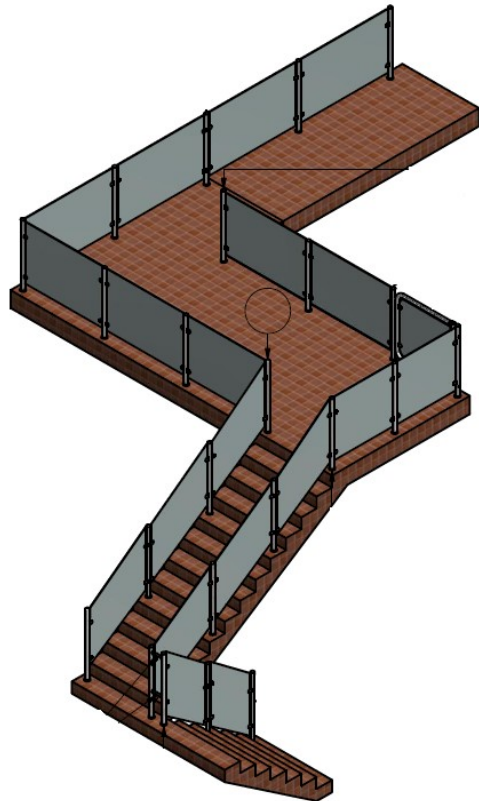
# EZRail Products

## Horizontal Tube System

- ❶ 50,8 END POST SET – STRAIGHT
- ❷ 50,8 END POST SET- STAIR
- ❸A 90° POST INT CORNER
- ❸B 90° POST EXT CORNER
- ❸C 90° INT CORNER STAIR/ STRAIGHT
- ❹ 180°POST JOINING
- ❹A 180° STAIR STRAIGHT POST
- ❺ 50,8 TOP RAIL
- ❻ 15,8 INFILL
- ❼ GATE
- ❽ 25,4 Upper cap kit

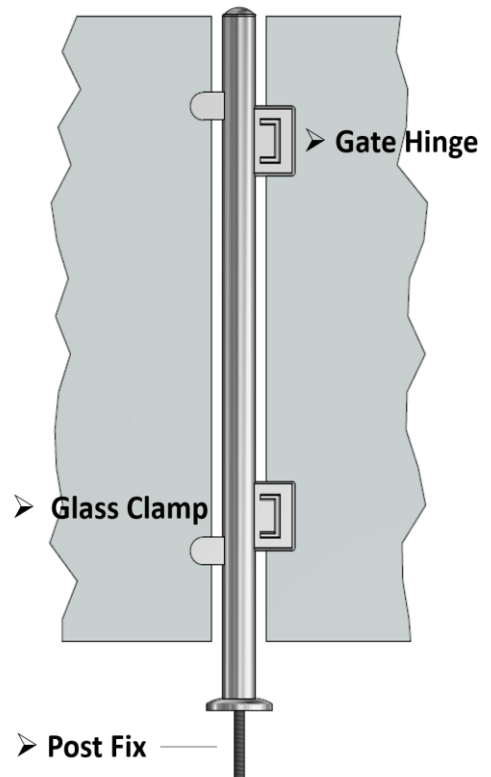
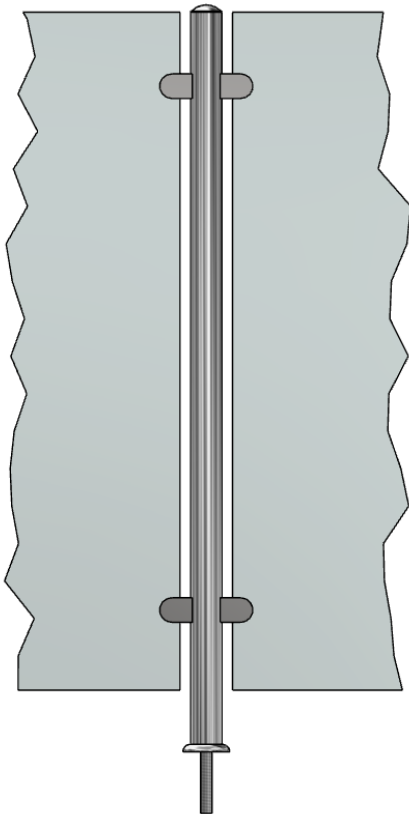
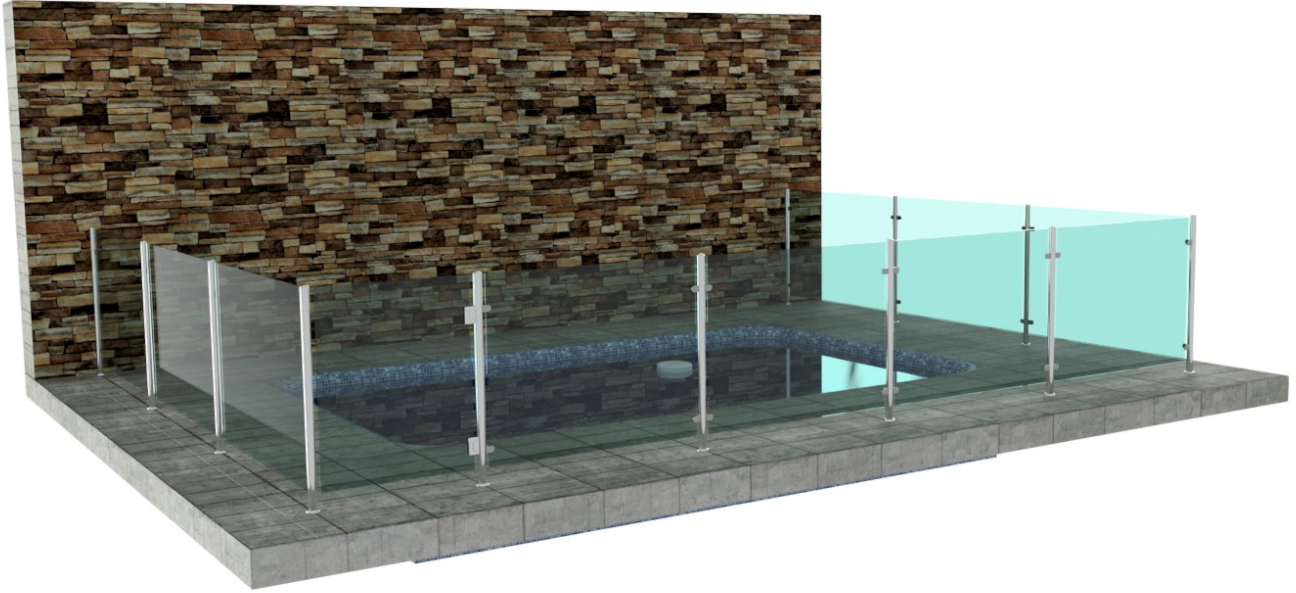


**Glass System with Top Rail**

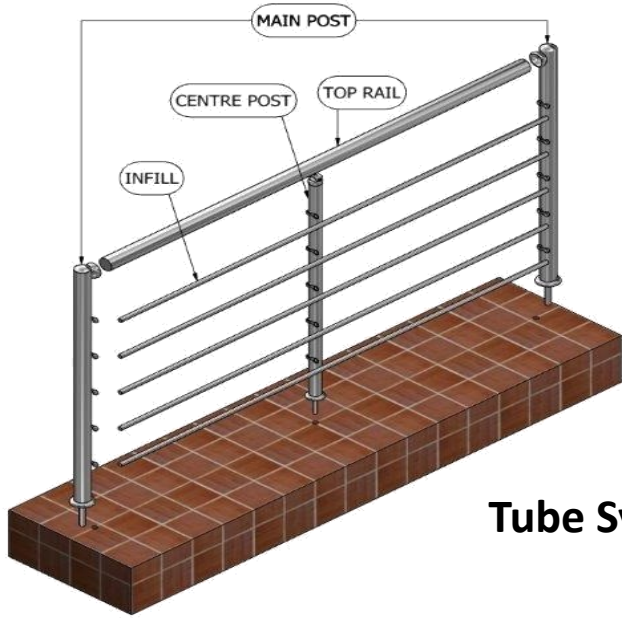


**Glass System without Top Rail**

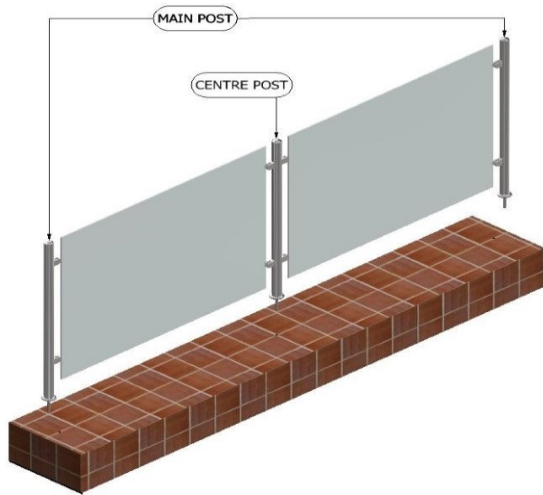
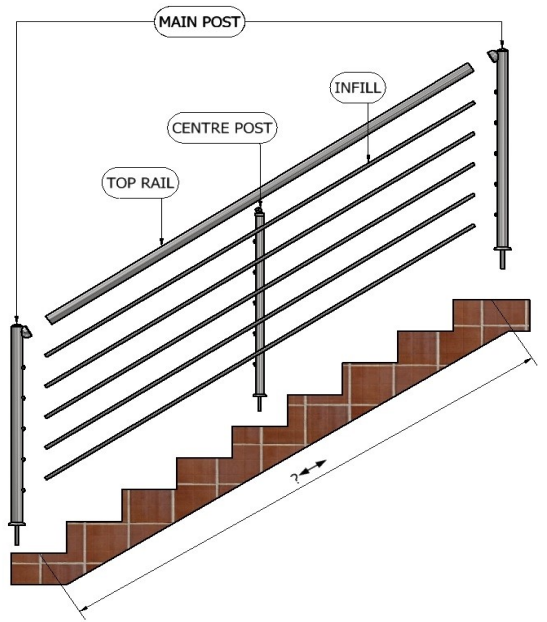
# Glass Post Pool Enclosure



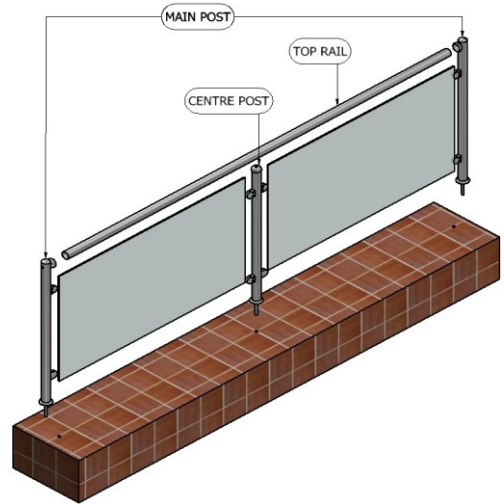
# Balustrade Styles



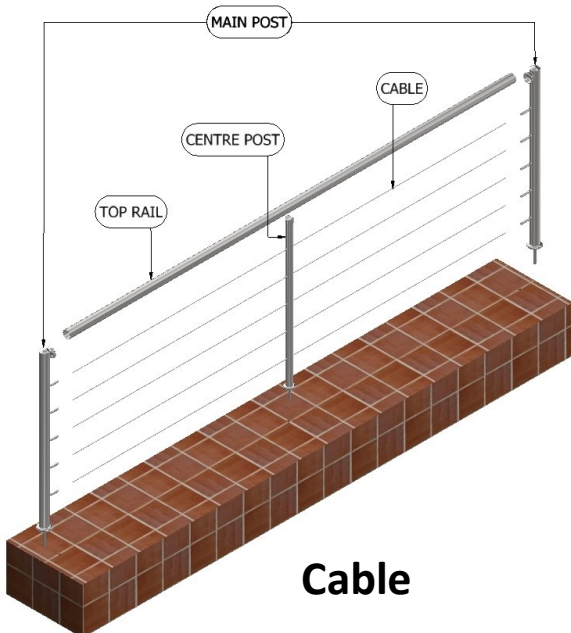
**Tube System**



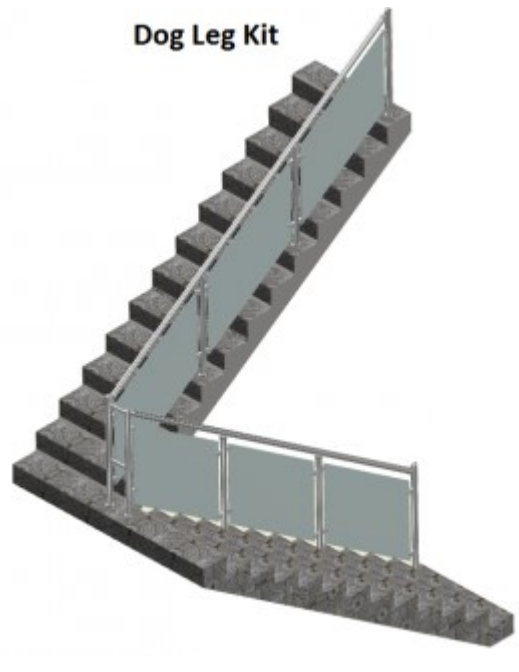
**Glass without Top Rail**



**Glass with Top Rail**

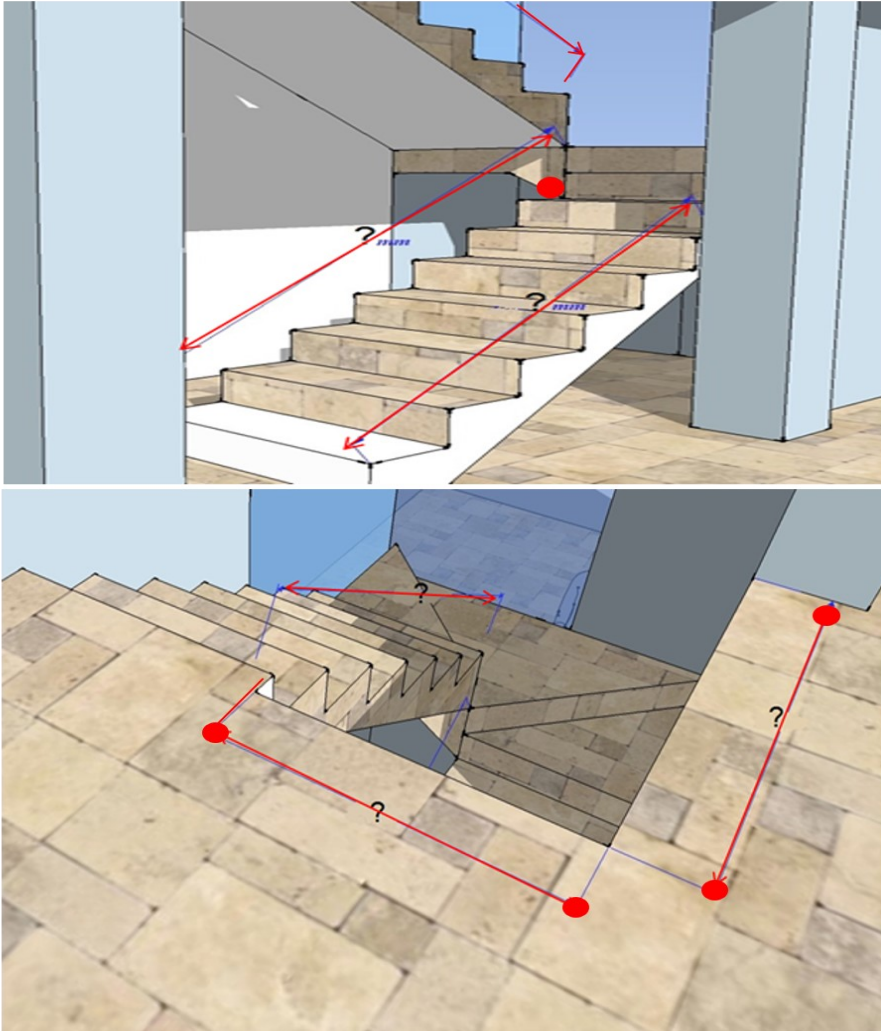


**Cable**





## HOW TO MEASURE



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### **Measure Up.**

Measure up your area where you intend placing your balustrade system.

Your measurements do not have to be exact, as your post placement may differ .

Once your main posts are placed, you will proceed to cut top rail to size & connect to post.

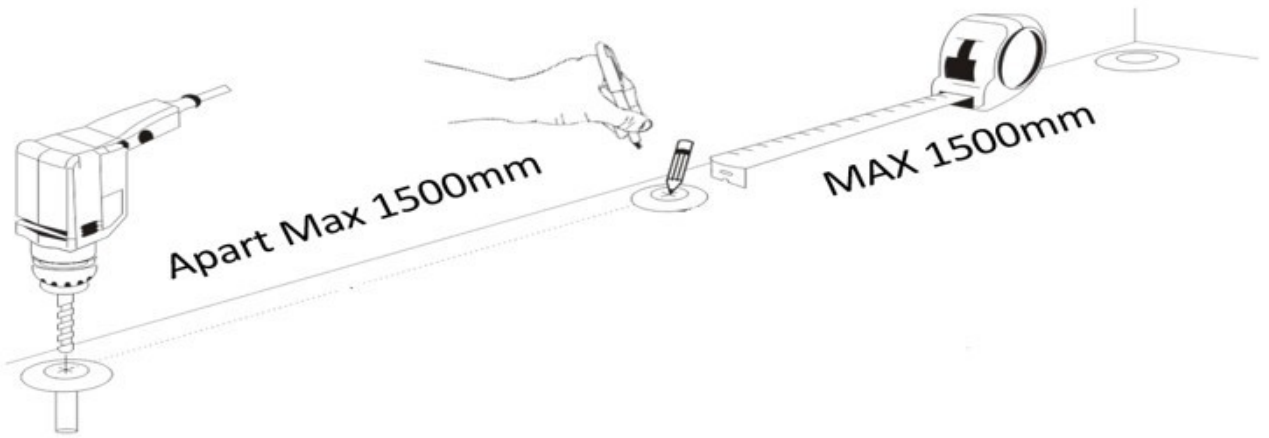
We supply 6meter lengths, optimize your material to get max usage. Use your diagram and layout during the install phase.

From your drawing pad order, important to use separate area pages, factory supplies your order per area, to minimise errors.

# Site drawing layout



## System Assembly Line drawing layout



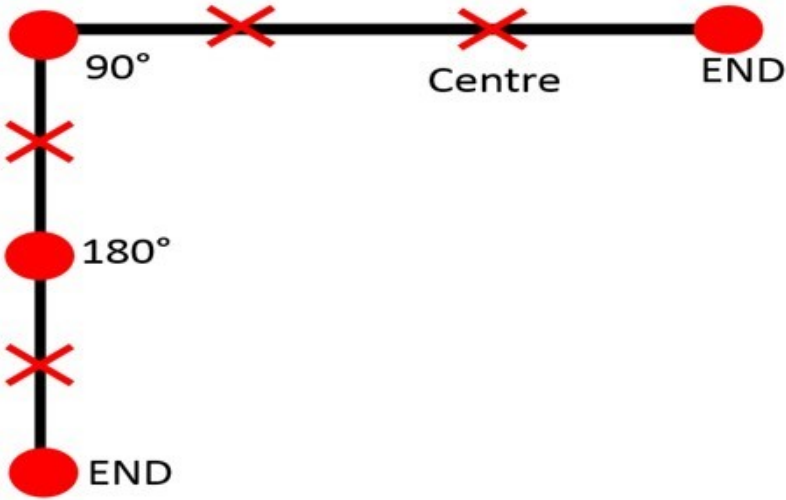
### Top View line drawing,

Simple layout drawing to see your configurations and item requirements

- 1. ● End /90/180 Posts
- 2. ✗ Centre Posts
- 3. — Centre Line

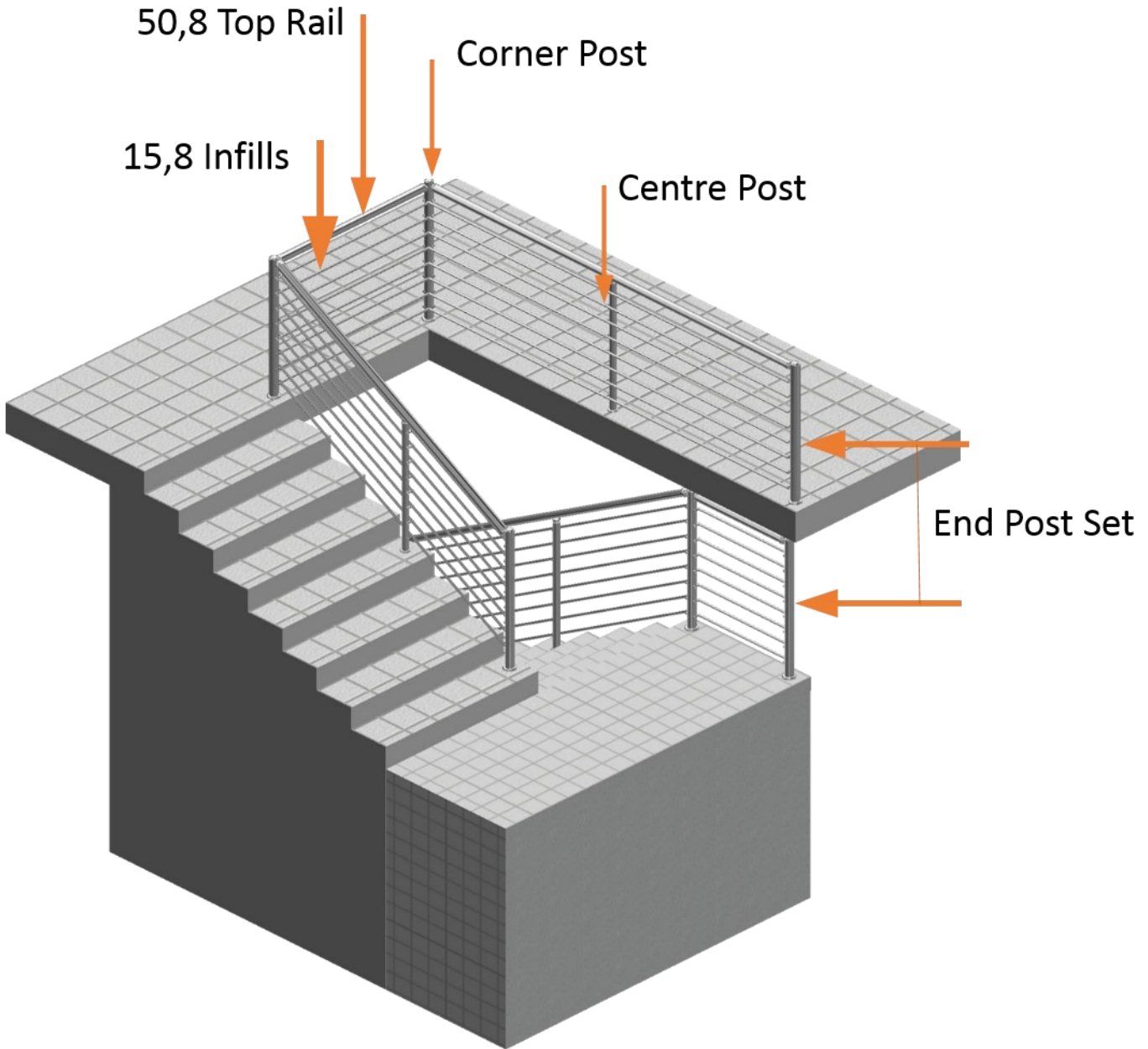


### Example for L shape

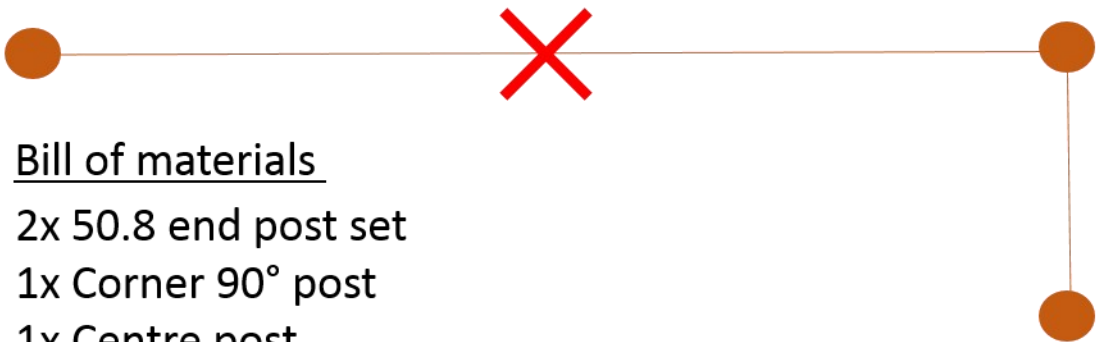


- 1. Mark evenly spaced holes between the posts
- 2. Place centre (support) posts at equal centres not more than 1,5m apart.
- 3. Recommended about 1,2m apart.
- 4. Make sure your line is centre from end to end. Use a chalk line.

# Posts Layout



## Example of line drawing & bill of materials





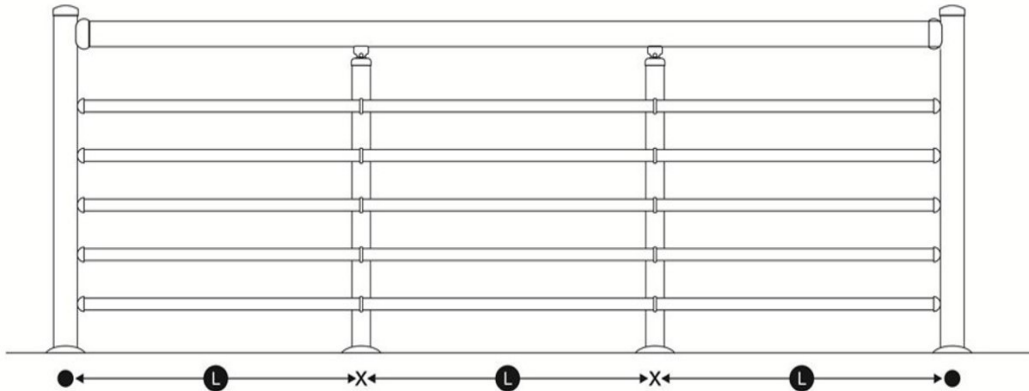


### Before proceeding to assemble your system:



We strongly recommend 1,2 mtr maximum span between supporting posts, This will strengthen tube infill's. This information and recommendation is only a recommendation. Please make contact with our technical support office if in doubt.

TUBE SYSTEM



### Before proceeding to assemble your system:



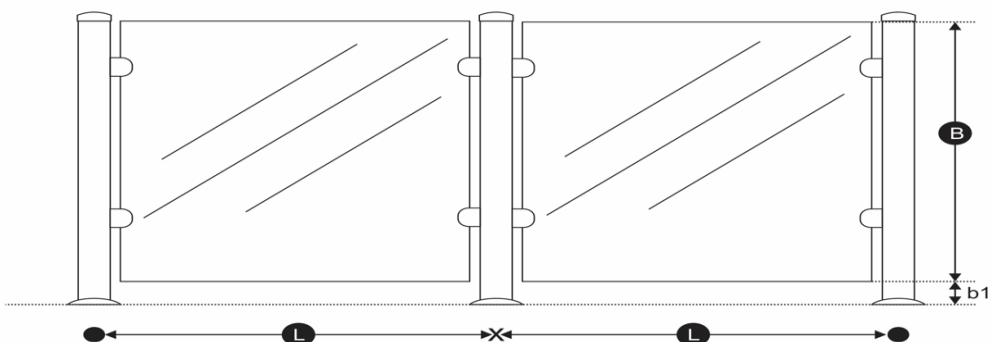
Recommend width of glass for outdoor use depending on wind factor, type, thickness will determine your spacing. Maximum span between supporting posts is determined by glass type and glass thickness.

**Toughened safety glass is strongly recommended.** Glass Balustrades is applied by two edge support system this information and recommendation is only a recommendation. Please make contact with our technical support office if in doubt.

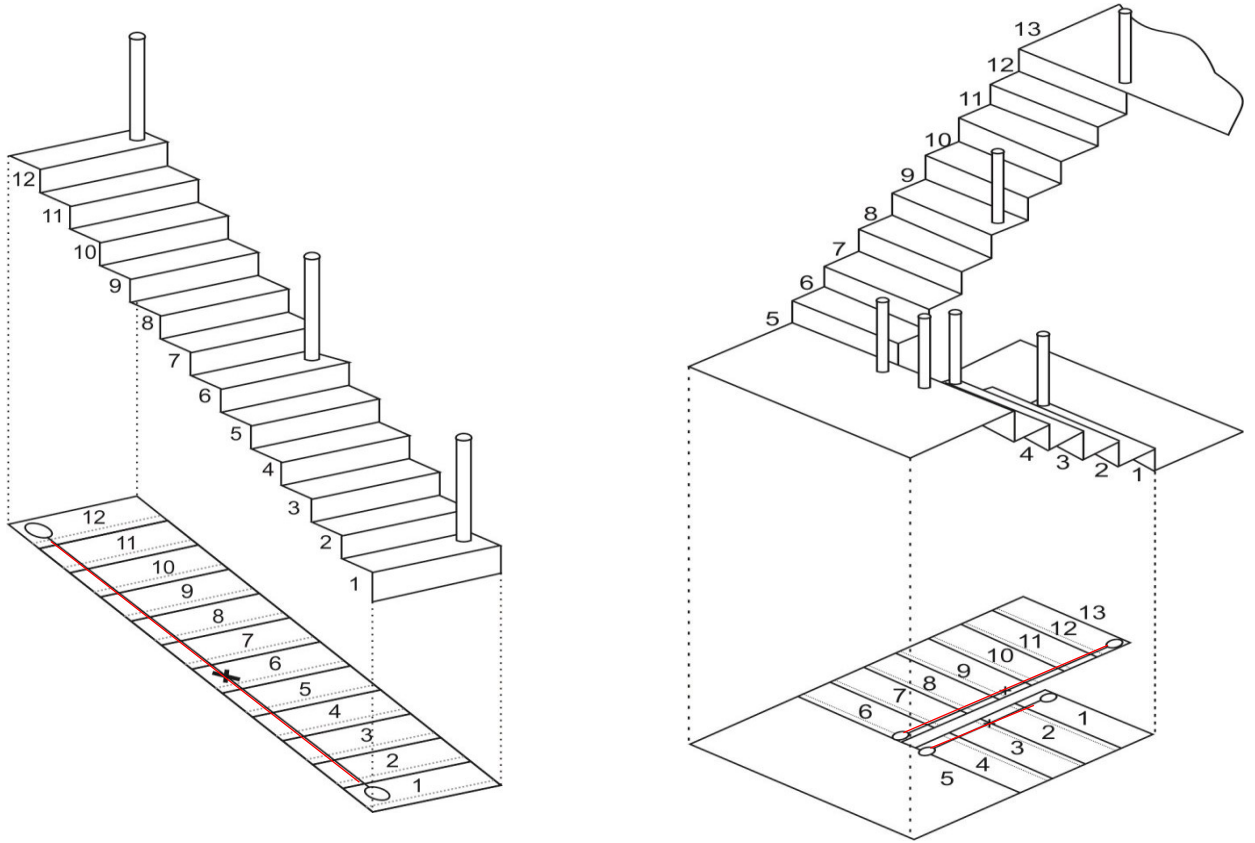
TSG	6mm	8mm	10mm	12mm
	1,3 mtr	1,75 mtr	2mtr	2,7 mtr Max

B1= 100mm Max

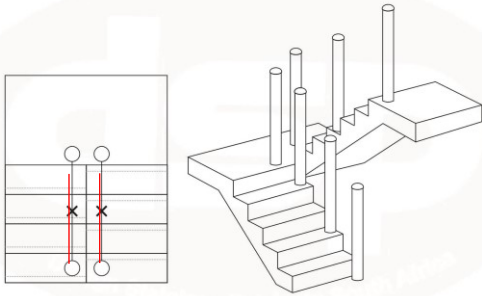
POOL SYSTEM



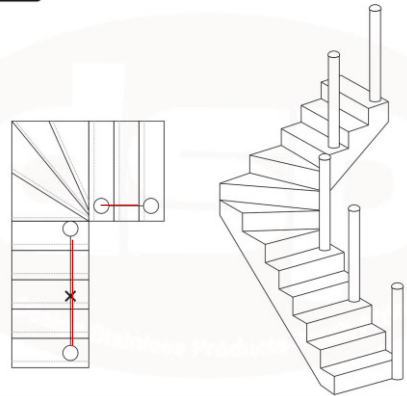
# Measure and Layout



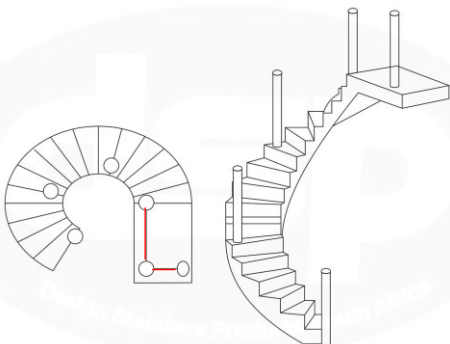
DOG-LEG STAIRS



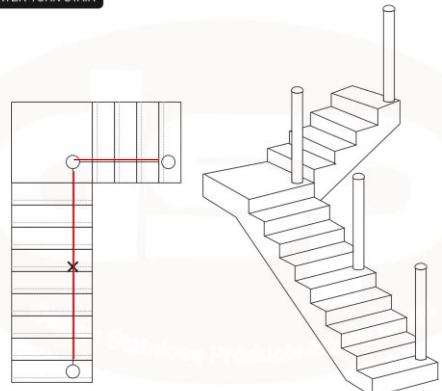
KITE WINDER



ELLIPTICAL STAIR



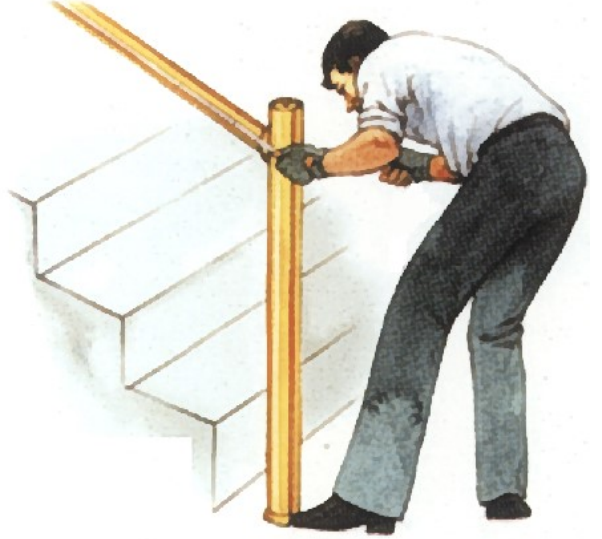
QUARTER-TURN STAIR



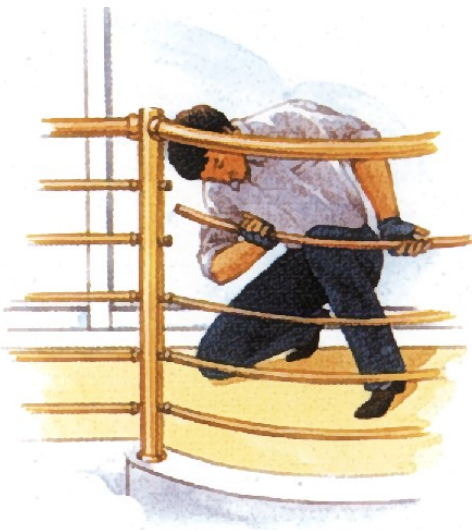
**Balcony**



**Stair**



**Top Rail connection**

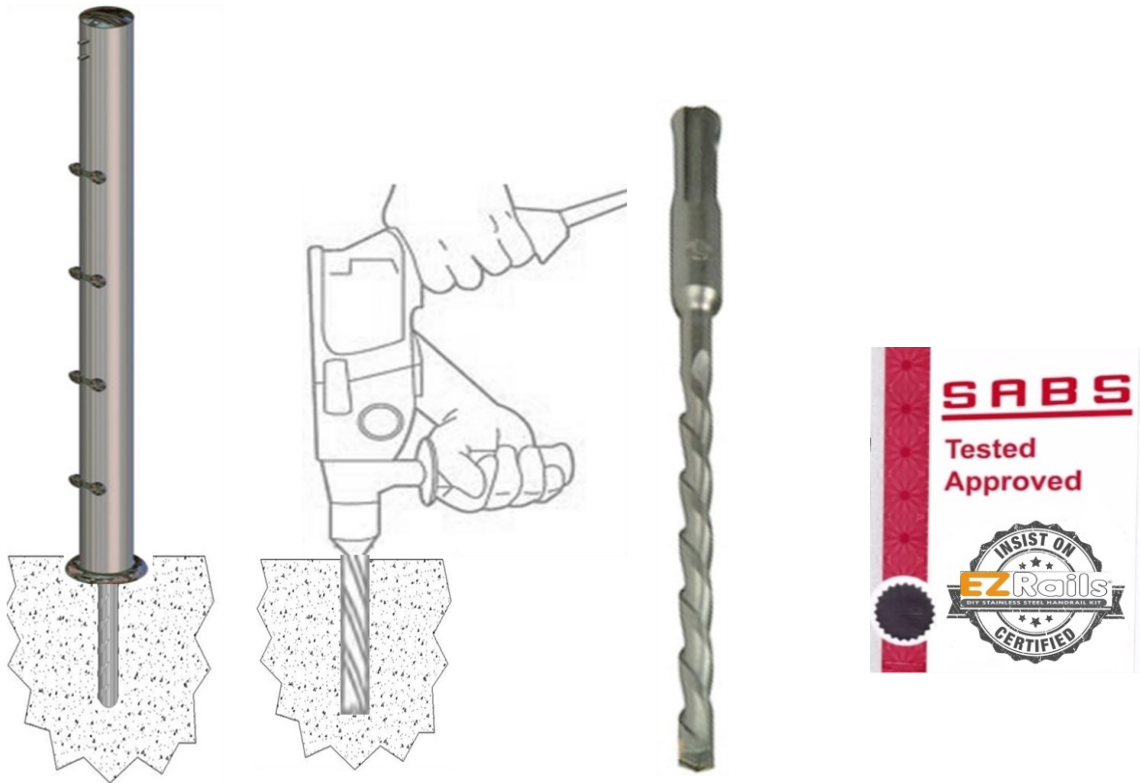


**In-Fill connection**

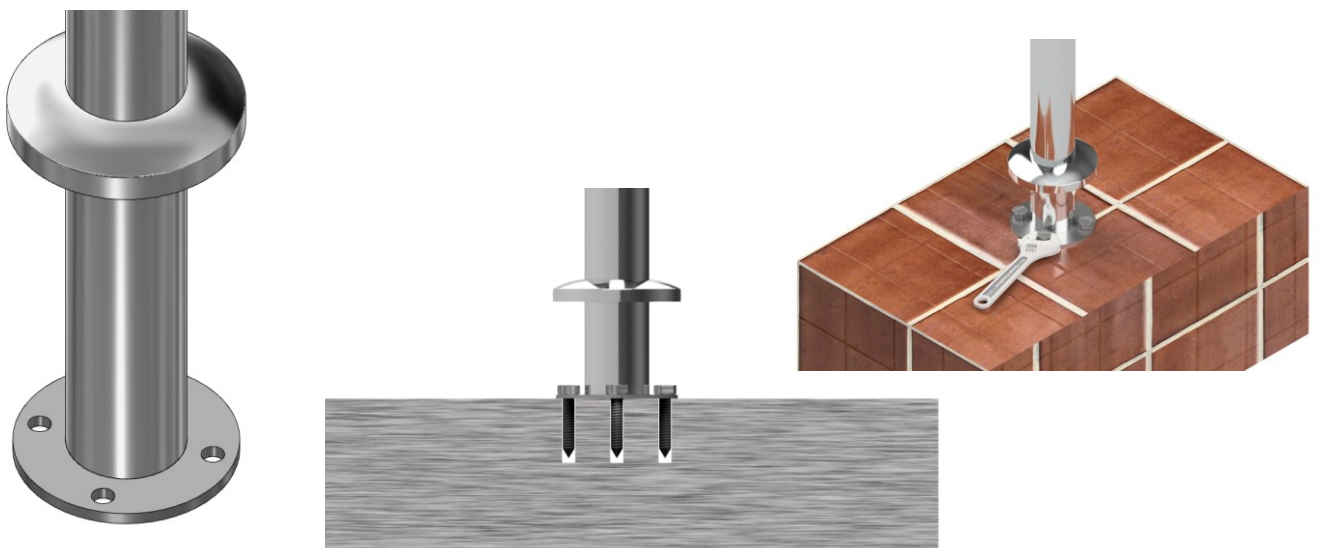


**Post drilling method**

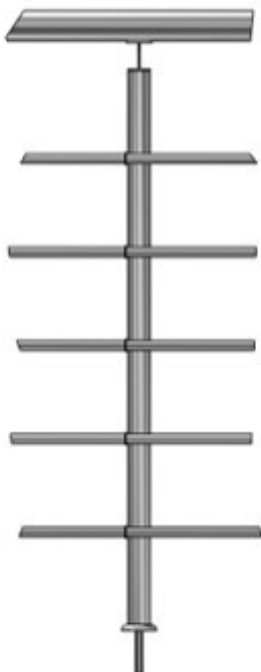
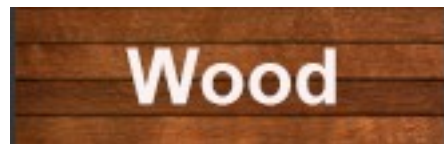
**EZRails post fixing method for concrete is recommended for most installations.**



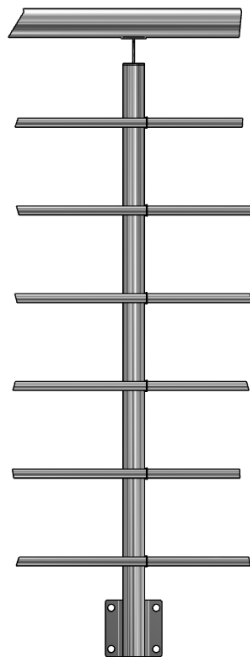
**Base Plate Fixing Method available on request**



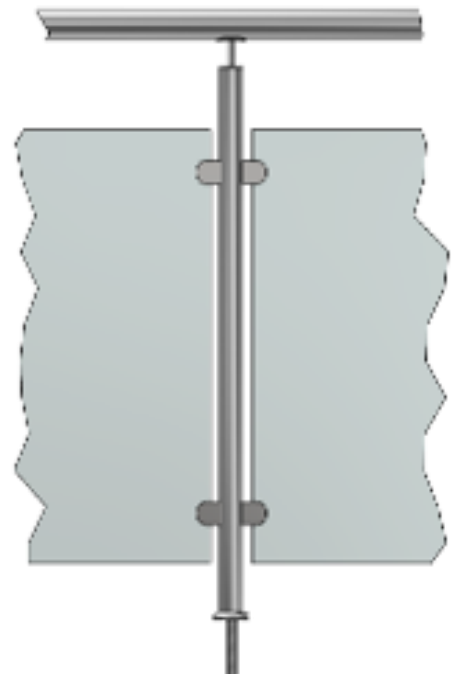
# Post Fixing substrate Options



Tube fix

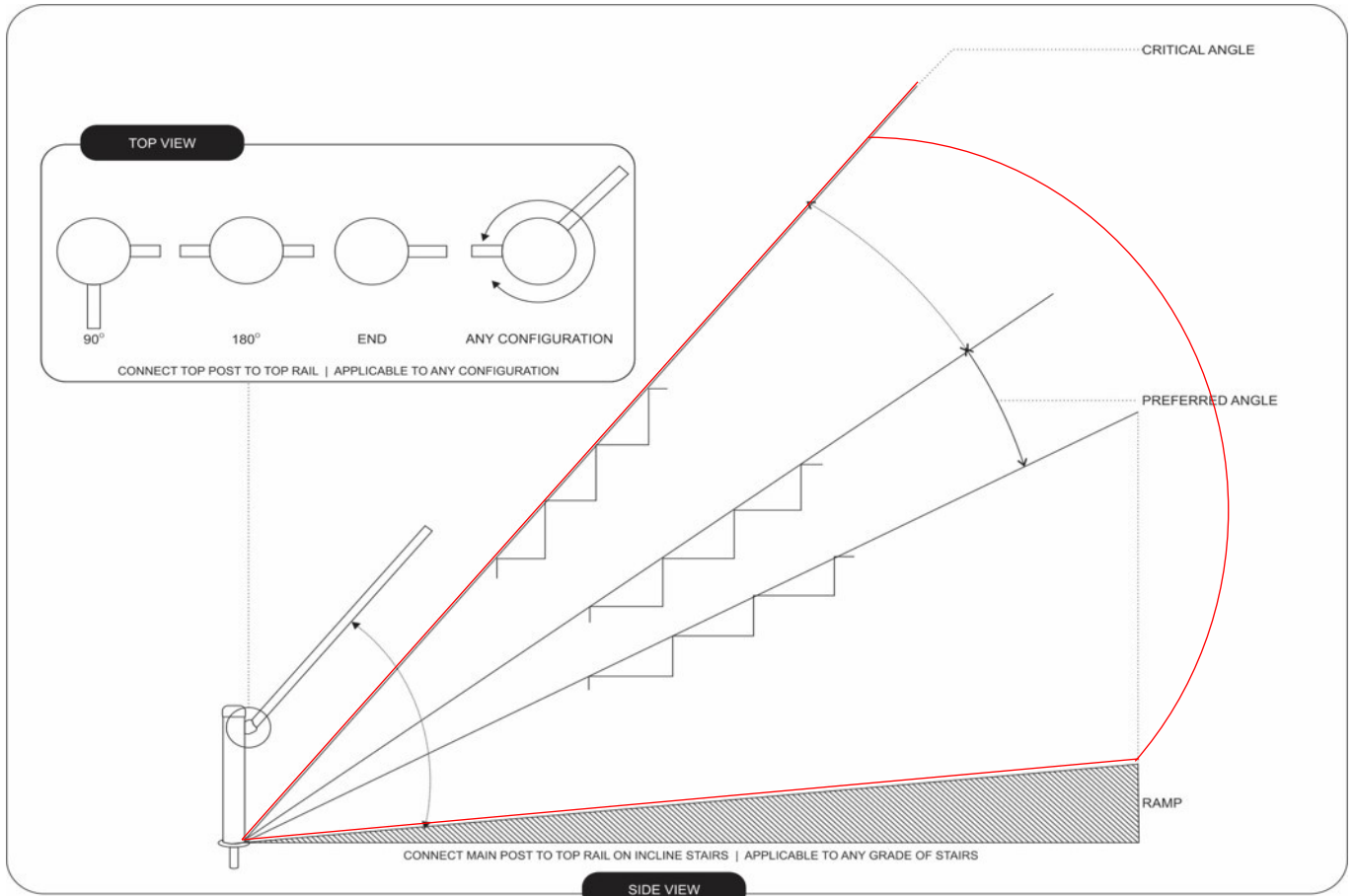


Side fix

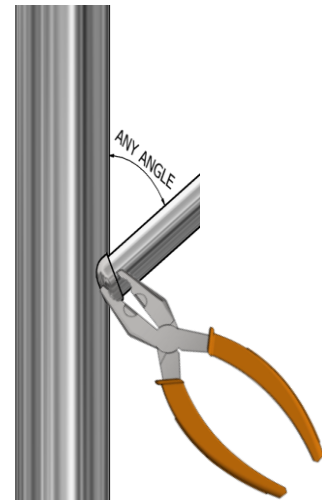
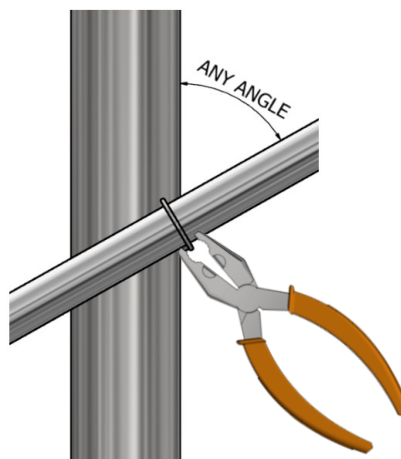
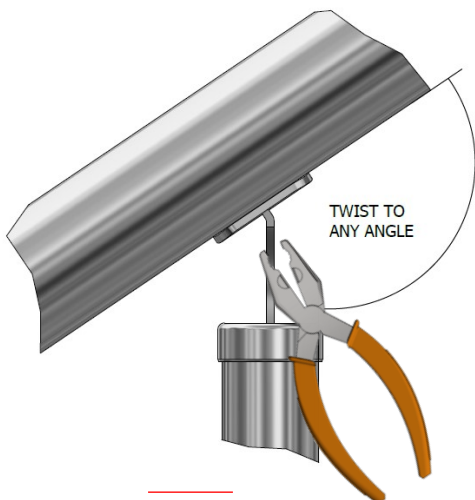


Tube fix

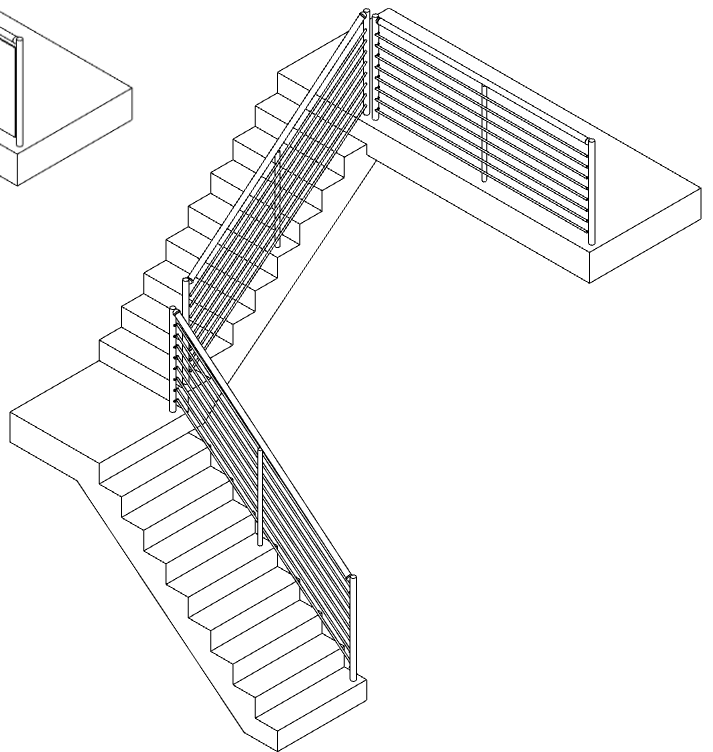
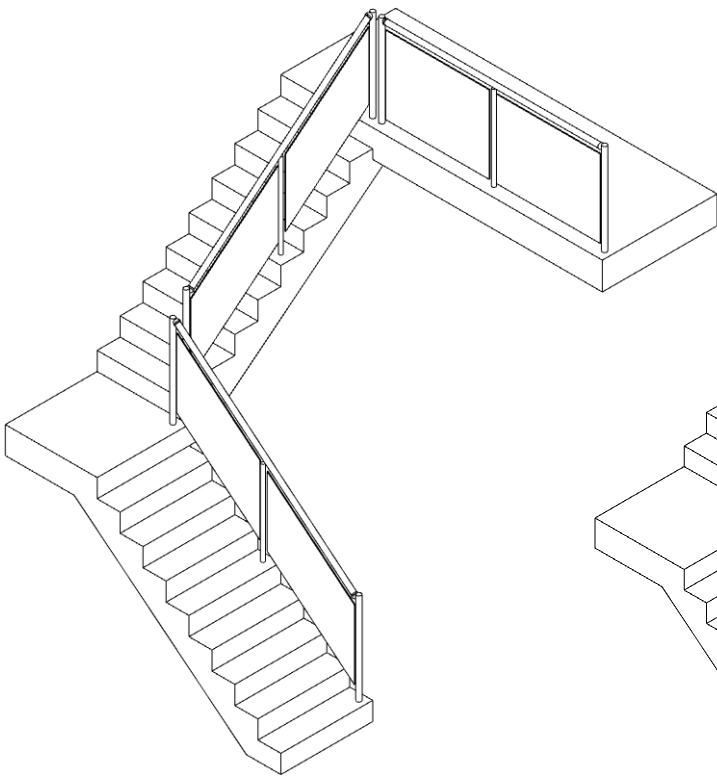
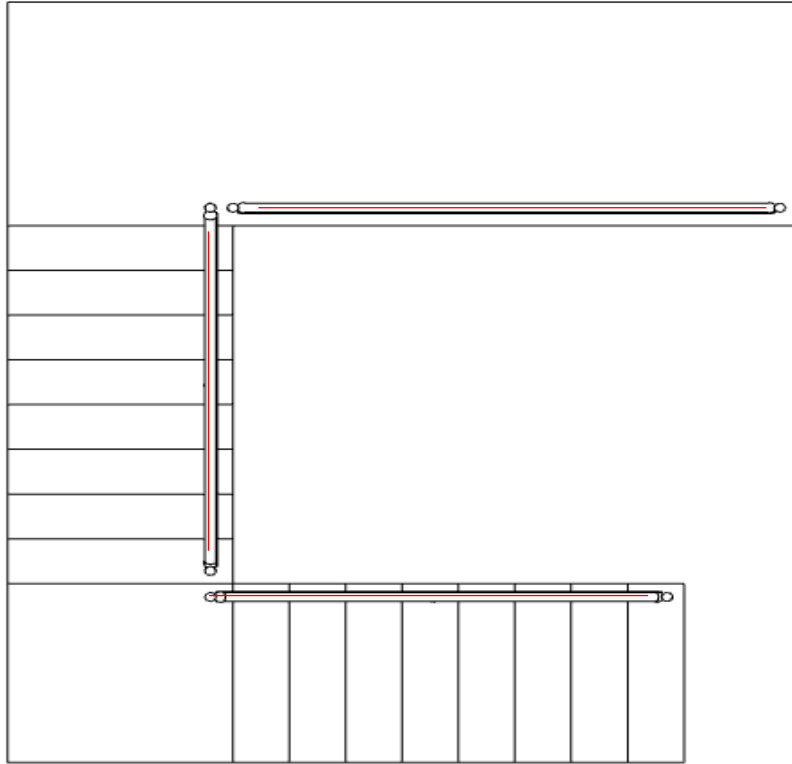
# Top Rail can adjust to any stair angle and configurations



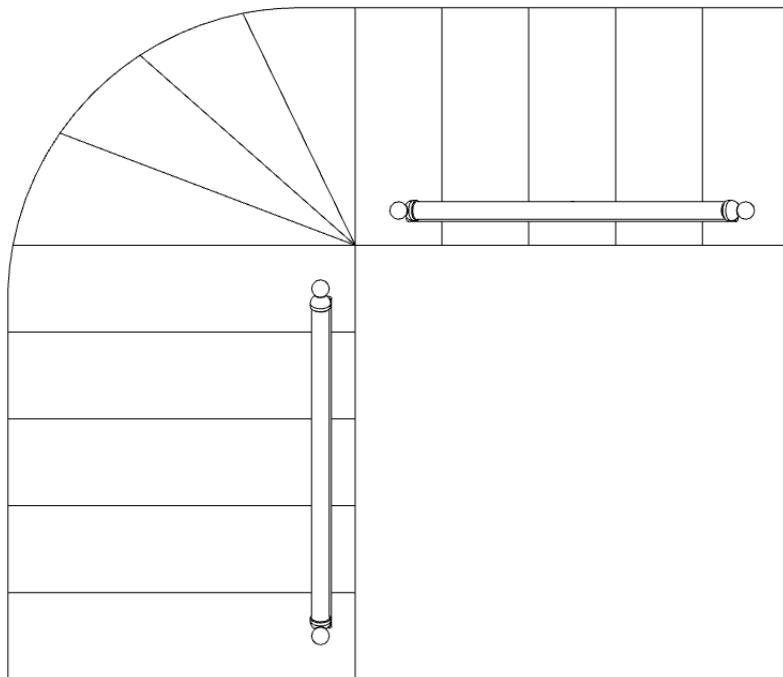
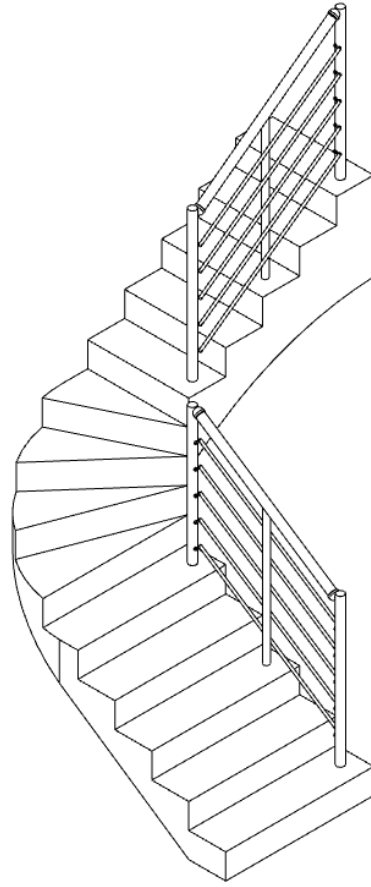
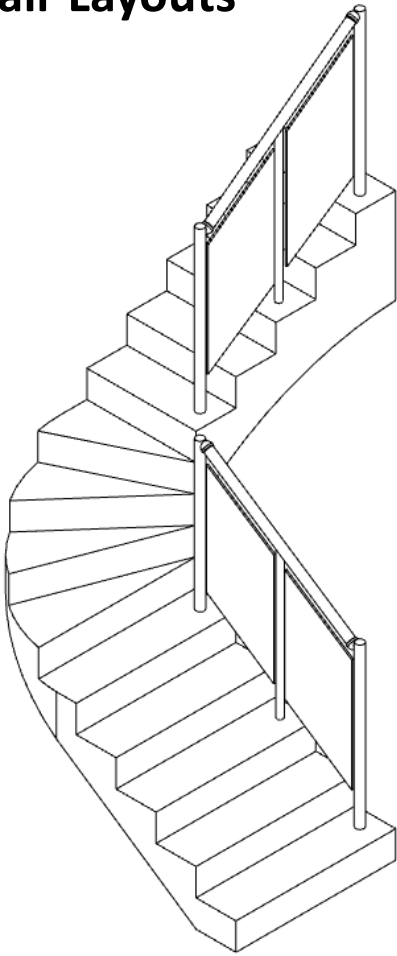
# Twist to suit any Stair angle From ramp to staircase



# Stair Layouts

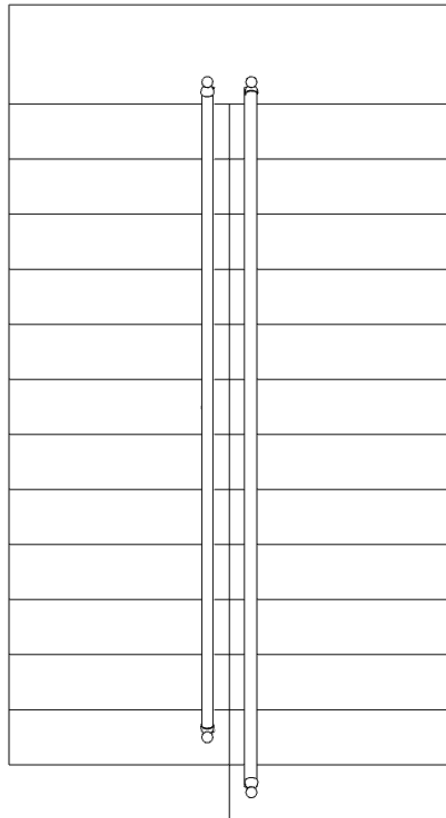
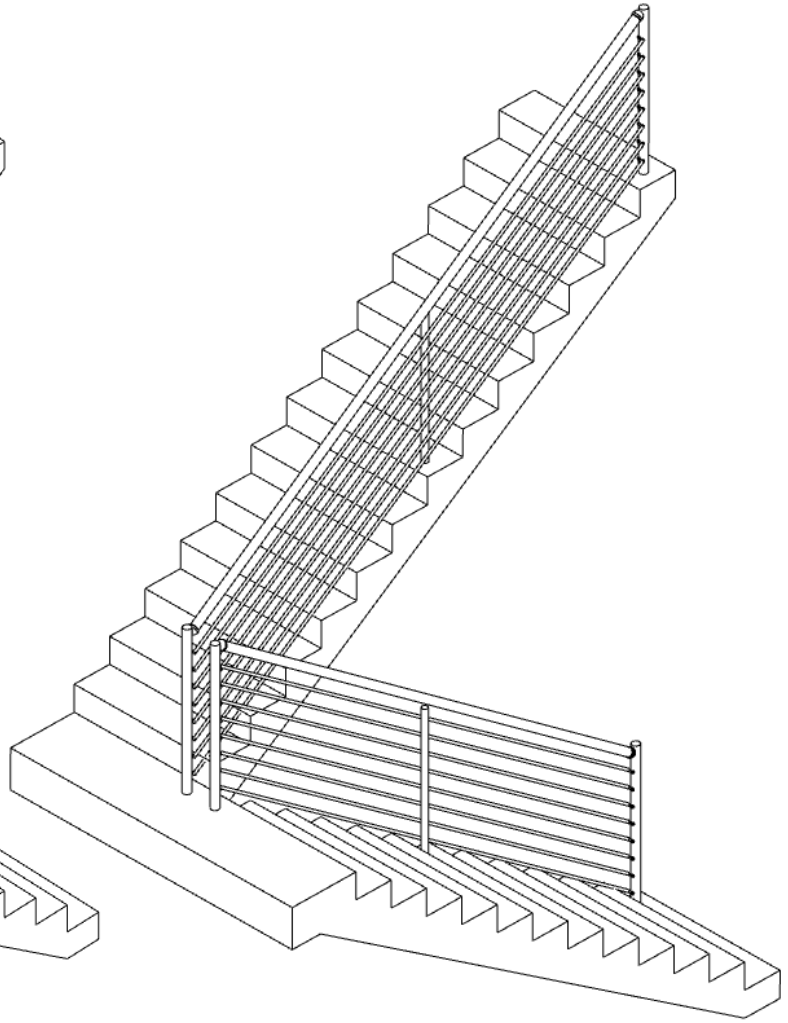
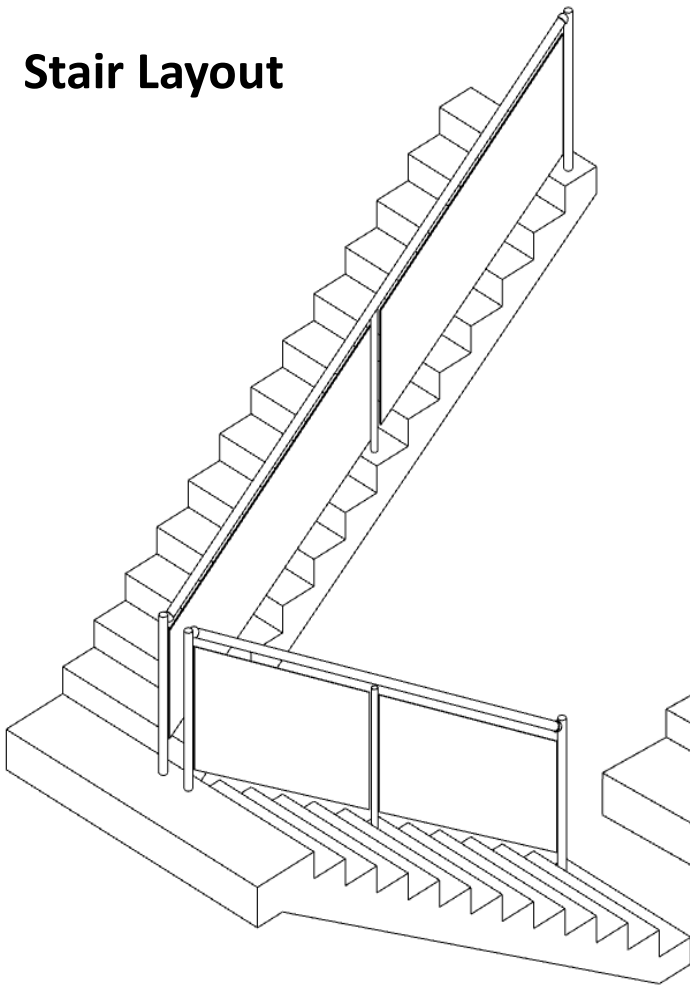


# Stair Layouts





# Stair Layout



# Tools Required



*Chalk line*



*Tape measure*



*115 Grinder*



*SDS Drill*

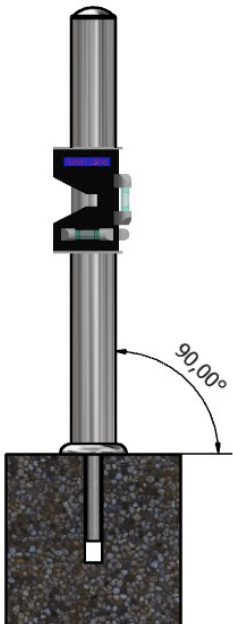


*SDS Drill Bit 20mm*



*Post level*

**Use EZ Rails Post Level to assist with post levelling**



**Post Level**

## System Assembly

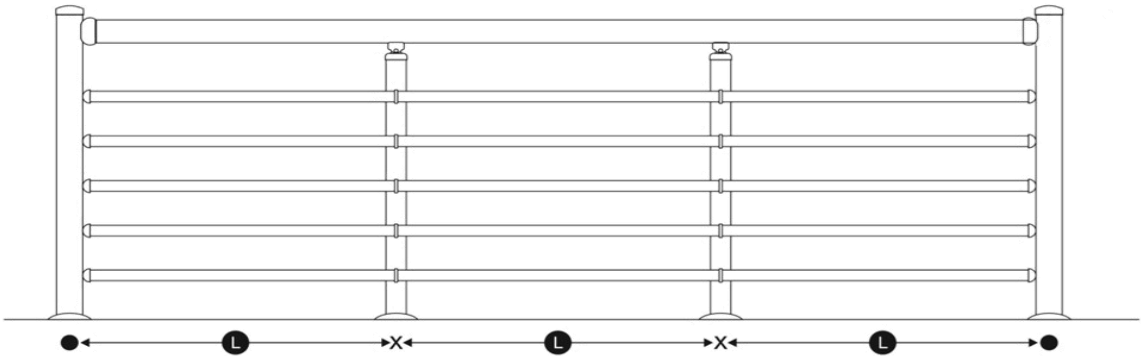


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TUBE SYSTEM



Fill hole with Epoxy.  
Don't forget to mix 2 parts A & B Together

If necessary Fill post with Concrete for Extra strength

