Professional Architectural Stainless Steel Railing Do It Yourself Kit Systems

www.ezrails.co.za
PART 1
All the parts included in the package are listed and illustrated.

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PART 2
The preliminary operations and various stages for a correct procedure are listed.

Quick Installation Guides to the following systems: 39-63
PART 1: INTRODUCTION

Design Stainless Products South Africa, is the pioneer of DIY Hand Railing Systems in the Stainless Steel Hand Railing Industry. The DSP System’s, have gained respect for their innovative designs.

The DSP Hand Railing Systems are based on interchangeable components, allowing you a wide range of flexibility to design a professional and secure Hand Railing System. Our Systems are supplied in complete DIY Staircase, Balcony and Landing kits. We provide complete and elegant solutions for all standard Hand Railing and Architectural requirements. Set for today’s designer trends.

The DSP Hand Railing Systems offer a complete DIY Solution, with no welding, grinding and polishing, at the installation site. It is the perfect DIY balustrade system. Our in depth knowledge and capabilities of DIY Hand Rail Solutions, is in the flexibility to respond to changing customer needs. We have very clever fittings, which allow you to adjust your hand rail to any angle or configuration. Difficult stairs, landings and balcony projects are a thing of the past!

Our products are protected by South African Patents.

Our Hand Rail System has been tested and approved by SABS for safety and strength. Our products are manufactured to ISO 9001 certification and meet all the latest specifications.

All products have a guarantee of 5 years.

The DSP Hand Railing Systems are based on interchangeable components, allowing you a wide range of flexibility to design a professional and secure Hand Railing System. Our Systems are supplied in complete DIY Staircase, Balcony and Landing kits. We provide complete and elegant solutions for all standard Hand Railing and Architectural requirements. Set for today’s designer trends.

What sets DSP Systems apart from the rest?

- A complete solution in a box!
- Strongest, safest, DIY System on the market.
- Self-connecting systems what get the job done right.
- No thinking, no hassle. Just assemble. It’s all in the design!
- No welding, grinding and polishing required.
- No pre manufacturing required.
- No accurate site measuring required. A simple line drawing is all we require.
- Install your staircase rails with confidence with our unique design.
- Site assembly.
- No complex tools required.
- Easy to assemble, saving you manpower and cost.
- Easy to order.
- Delivery countrywide.
- Available countrywide.
- We guarantee 100% customer satisfaction!
INTRODUCTION TO PRODUCT SYSTEM & KITS

We offer the following standard self-connecting prefabricated Hand Rail Systems:

POST OPTIONS
We offer an option of factory assembled posts for your convenience. (DIY)

ASSEMBLED POST
Available in the following Hand Rail Systems:

**Tube System**
Comprising of; Stainless Steel Grade 304 or 316 Ø50.8 & Ø38.1 1m High Posts with
1 x Jointer Cap, 5 x Jointers, 1 x Socket for Stairs or Straight, 1 x Low Cap

**Glass System with Top Rail (Staircase & Landing)**
Comprising of; Stainless Steel Grade 304 or 316 Ø50.8 1m High Posts with
1 x Jointer Cap, 2 x Glass Clamps, 1 x Socket for Stairs or Straight, 1 x Low Cap

**Glass System without Top Rail (Pool & Balcony)**
Comprising of; Stainless Steel Grade 304 or 316 Ø50.8 1m High Posts with
1 x Jointer Cap, 2 x Glass Clamps, 1 x Low Cap

**Cable System**
Comprising of; Stainless Steel Grade 304 or 316 Ø50.8 & Ø38.1 1m High Posts with
1 x Jointer Cap, 5 x Cable Fittings, 1 x Socket for Stairs or Straight, 1 x Low Cap

We offer a weld on option for you to assemble yourself. (Installers)

**UNASSEMBLED – WELD ON**
Available in the following Hand Rail Systems;
- Tube System
- Glass System with Top Rail (Staircase & Landing)
- Glass System without Top Rail (Pool & Balcony)
- Cable System

We offer a riveted option for you to assemble yourself. (DIY) Basic frame add your infills.

**UNASSEMBLED – RIVET**
Available in the following Hand Rail System;
- Tube System
- Glass System
- Cable System
- Elegance System

**Kit Options**
Complete Systems in a box. Ready to go!

**DIY Staircase Kits**
Staircase Kits (Available in 2m, 3m, 4m, 5m & 6m Kits)
Landing & Balcony Kits (Available in 2m, 3m, 4m, 5m & 6m Kits)
- Dog Leg Kit
- Quarter Turn Kit
- Kite Winder Kit
- Spiral Kit (Excluding Rolling)
- Elliptical Kit (Excluding Rolling)

**Fixing Methods**
Post and Kit options have the following fixing methods;
- Post Fix (Concrete & Brick)
- Thread Fix (Wood)
- Wood Fix (Wood)
- Side Fix (Concrete)
- Core Drill (Concrete)

**Optional Extras**
We offer a range of optional extras which will assist you in a successful installation. Please see our price list.
TECHNICAL SOLUTIONS

For any technical query regarding railings, We are just a phone call away, 012 653 0053/3955 or E-mail technical@ezrails.co.za

ORDERING OPTIONS

1 Shop online
Buy now, the advantages is endless
Having more time to feel sure about your choice, making life even easier, saving on what you can do yourself. This is what we want to offer. Visit our online shop at www.ezrails.co.za or visit selected retailers retail stores nation wide.

2 Let us deliver to your doorstep
Load it in your car or have it delivered
You don’t have to rent a van, the assembly kit is contained in a box and, if you have a medium-large car boot, you can take it away yourself. But, to make things even easier, we offer a home delivery service too.

3 How to order
Just call or mail.
Talk to our sales team.
Mail us at sales@ezrails.co.za or sales@dspsa.co.za or call (012) 653 0053/3955

4 We have a network of DSP agents
A fitter can install at a nominal fee.

5 Distribution
Get it anywhere!
With our distribution all over South African and our extensive distribution strategy, DSP is geared to provide you with your DIY kit wherever in the world you might be.
For a complete technical solution, we will come to you and install your DIY system at your home or office... countrywide!

**Remember to always use an approved installer.**

Call us today!

*Safety and Certification*

EZRail Systems are the...
Strongest, Safest, Quickest, Easiest, Most Affordable Systems on the market, set for today’s designer trends.

Our products are manufactured to **ISO 9002 and ISO 9001 certification...and is SABS approved** (Tested to meet all the latest specifications).

EZ Rails is also tested for child safety.

We guarantee 100% customer satisfaction with our products.
WHERE CAN IT BE USED?

A global leader in modular stainless steel railing systems

EZ Rails provides turnkey solutions for your homes, offices and commercial buildings. A pioneer in Modular Railing Systems, EZ Rails has gained a strong reputation as one of the most respected names for railings all across the globe. Equipped with manufacturing technology, extraordinarily strict quality norms and multi-locational Manufacturing and warehousing.

EZ Rails has become the undisputed leader in its field.

EZ Rails products are already installed in thousands of locations worldwide:

- Airports
- Shopping Malls
- Office Buildings
- Residential Projects
- Hospitals
- Metro Stations

EZ RAILS INNOVATIONS

Flexibility to respond to changing customer needs for example: we have clever fittings which allow you to adjust to any angle and configuration...

So difficult stair-, landing- and balcony projects are a thing of the past!

EZ RAILS RAILINGS ARE STRONGEST, SAFEST & MOST COMPETITIVE RAILINGS ON THE MARKET... SET FOR TODAYS DESIGNER TRENDS.
DSPSA is a pioneer in DIY Rails Systems
Which cuts out on-site welding grinding and polishing.

DSP DIY Railings

- Superior finish, clean smooth looks
- Designed to compensate for inaccuracies
- Fits any configuration of stairs
- No on-site accurate measuring
- Minimizes chances of rust
- Stronger Joints
- Site Systems
- All stock items, same day installation
- No manufacturing delays.
- Assembly with speed. Days vs Weeks!

Pin Type Railings

- Ugly finish with touch up marks
- Welding splatter
- Prone to rust
- Weak Joints/Unsightly Joints, Welding & Grinding
- Costly Manufacturing
- Installation delays
- Very accurate on site measuring
- Detailed drawings required to manufacture
## WHICH MATERIALS TO USE

<table>
<thead>
<tr>
<th>MATERIAL / SITE</th>
<th>SS 316 GRADE</th>
<th>SS 304 GRADE</th>
<th>SS202 GRADE/ MILD STEEL</th>
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<tr>
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<tr>
<td>Coastal Areas</td>
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<td>✔️</td>
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</table>

DSPSA Strongly recommends that any stainless steel used in your architectural project should be minimum 304 grade. Inland 304 Coastal 316.

202 or other grades may have a lower cost in the beginning but will catch rust much faster will nullify your entire investment.
SECURE INSTALLATION

EZRails ensures that its railings are manufactured to very high fixing specifications. The actual site often presents various challenges for the installer. EZRails has designed a full range of fixings tested and approved by the SABS on any kind of base, tiles, marble, concrete, wood etc..

SABS APPROVED
EZ RAiLS COMPONENTS

Easy to use, discover how effortlessly you can create challenging connections within seconds using the stair- and straight sockets to main posts for easy assembly... Saving you time and money. Install your railing with speed! With the EZ Drilling jig it requires no accuracy, just clamp and drill...That’s all!
COMPONENT OPTIONS

STAIR SOCKET

Riveted Type

Welded Type

DSP Stair socket can be applied to any angle.
COMPONENT OPTIONS

STAIR SOCKET

A End Post Option
B Centre Post Option

STRAIGHT SOCKET

A End Post Option
B Centre Post Option
HOW IT WORKS

LANDING

STAIRS

LANDING

QUICK PROJECT GUIDE
Hard labour: 4/10
Skill: 3/10
EXAMPLE OF A LINE DRAWING

MEASURE UP.

- Simple line drawing of your area showing measurements, lengths, corners, stairs, pillars is needed to complete your quote.
- Photo of your project would be good.
- Refer to the specification page 16 for reference to post span.
- Specify if you are close to the coast or inland.
- System option style you would require. Horizontal Tube, Glass, cable, Pool, etc.
- Finish you may require, Satin, Mirror, Ti Gold, Etching silver.
- Fixing option, DIY or installation.
- Fixing method for your installation. Core drill, post fix, Thread fix, Side mount, Wood fix.
Before proceeding to assemble your system:

We strongly recommend 1.2 m maximum span between supporting posts. This will strengthen tube/cable infills. This information and recommendation is only a recommendation. Please make contact with our technical support office if in doubt.

We strongly recommend 1.2 centre to centre posts. This will strengthen tube and cable infills.

Eq. 12m = 2 x 6m boxes
(or any combination)

What is the maximum span between supporting posts for different glass types and thicknesses?

For Glass System:

<table>
<thead>
<tr>
<th>TSG</th>
<th>6mm</th>
<th>8mm</th>
<th>10mm</th>
<th>12mm</th>
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<tbody>
<tr>
<td>1.3m</td>
<td>1.75m</td>
<td>2m</td>
<td>2.7 m</td>
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</table>

B1=100mm Max | B2=100mm Max

For Tube/Cable System:

We strongly recommend 1.2 m between supporting posts. This will strengthen tube/cable infills. This information and recommendation is only a recommendation. Please make contact with our technical support office if in doubt.

For Balcony 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.

Eq. 12m = 2 x 6m boxes
(or any combination)

For Pool 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 |
<table>
<thead>
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<th></th>
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<th></th>
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<tbody>
<tr>
<td>1.3m</td>
<td>1.75m</td>
<td>2m</td>
<td>2.7 m</td>
<td></td>
</tr>
</tbody>
</table>

B1=100mm Max
Preparing your DIY installation.

**Before proceeding to assemble your system:**
Plan and mark your job carefully.
Tiling must be in completed before installation.
The work place must be clean and orderly.
Wear all necessary protective gear.
Handle all power tools carefully.
Ensure your installation is safe and securely installed and meets with building code requirements.

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**TOOLS NEEDED**

- 18 or 20mm Masonry Drill Bit
- DSP Post Level
- 4mm/4.8mm Drill Bits
- Pop Rivet Gun
- Drilling Machine
- 115 Angle Grinder

**EZ-DRILLING JIG**

DSP cannot be held responsible for any loss incurred through incorrect use of this document. Because the actual use is by the user and beyond control of DSP, such use is within the exclusive responsibility of the user…
OVERVIEW OF PRODUCTS

EzRail Connectors

STRAIGHT SOCKET

RIVET DIY OPTION  WELD OPTION

Discover how effortlessly you can create highly challenging connectors within seconds by using the EZ-Connectors to complete your project.

EZRails Fix

To any configuration
OVERVIEW OF PRODUCTS

EzRail Connectors

Connecting top rail to main posts.
from 5° to 60° stairs. Applicable to any grade of stairs.

STAIR SOCKET

RIVET DIY OPTION  WELD OPTION

Flexibility to respond to changing needs: for example, we have a clever fitting which allow you to adjust to any angle and configuration.

To any configuration
OVERVIEW OF PRODUCTS

**EzRail Connectors**
Connecting infill tube to post.

**END JOINTER**

**RIVET DIY OPTION**

**WELD OPTION**

End Jointer

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<th>304/J158</th>
<th>Sold packet of 5</th>
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</thead>
<tbody>
<tr>
<td>316/J158</td>
<td></td>
<td>Sold x100 per box</td>
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</table>

*Remember to calculate how many jointers you’ll need!! Twist to angle parallel to the stairs.*

Fix & Twist to any angle and configuration.
OVERVIEW OF PRODUCTS

**EzRail Connectors**

Connecting infill tube to Centre post.

**MIDDLE JOINTER**

**RIVET DIY OPTION**

**WELD OPTION**

Middle Jointer

15,8
304/MJ 158
316/MJ 158

Sold
packet of
5

Sold
x100 per
box

Fix &Twist to any angle and configuration.
# CHOOSING YOUR KIT

## How to select EZRail Kit Systems

### 1. Choose your posts or kits

- Assembled post
- Unassembled weld post
- Unassembled rivet post
- Staircase kits (Available in 2m, 3m, 4m, 5m and 6m Kits)
- Landing & Balcony Kits (Available in 2m, 3m, 4m, 5m & 6m Kits)
- Dog Leg Kit
- Quarter Turn Kit
- Kite Winder Kit
- Spiral Kit (Excluding Rolling)
- Elliptical Kit (Excluding Rolling)

### 2. Style

- Tube
- Glass
- Cable
- Pool / Balcony
- Elegance

### 3. Finish

- Satin
- Mirror
- TI Gold
- Etching Silver

### 4. Fixing Method

- Core Drill
- Post Fix
- Thread Fix
- Side Mount
- Wood Fix

### 5. Material

*Please choose between 304 and 316 as per your Application.*

- SS 304 Inland
- SS 316 Coastal
DIY POST SYSTEMS

SPECIFICATIONS

**TUBE SYSTEM**
- Straight Socket
- Stair Socket
- End Jointer
- Middle Jointer
- 50.8 Top tube
- 15.8 infill
- 50.8 End Post
- 38.1 Center Post

**GLASS SYSTEM**
- Straight Socket
- Stair Socket
- Glass clamp
- 50.8 top Rail

**POOL**
- End Post
- 90 dec
- 180 dec

**BALCONY**
- Straight Socket
- Stair socket
- Cable fittings
- 50.8 Top tube
- 50.8 End post
- 38.1 Centre post

**CABLE SYSTEM**
- Straight Socket
- Stair socket
- Cable

**ELEGANCE SYSTEM**
- Straight Socket
- 50.8 Top Rail
- Stair socket

**WALL MOUNTED SIDE RAIL**
- Push Fit
- Infill's

www.ezrails.co.za
**DIY TUBE POSTS - 5 LINE**

Please note, refer to page 16

<table>
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<tr>
<th>PICTURE</th>
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<th>DESCRIPTION</th>
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<td>[Image 49x604 to 72x672]</td>
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<td>STS Ø50.8 Main Post - Core Drill</td>
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<td>[Image 47x535 to 85x591]</td>
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<td>STS Ø50.8 Main Post - Post Fix</td>
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<td>[Image 47x359 to 85x416]</td>
<td>LH/RH/POSTSBR304</td>
<td>STS Ø50.8 Main Post - Side Mount</td>
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<td>[Image 47x431 to 68x493]</td>
<td>LH/RH/POSTTF304</td>
<td>STS Ø50.8 Main Post - Thread Fix</td>
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**STRAIGHT - STR**

- LH/RH/POSTCD304
- LH/RH/POSTPFS304
- LH/RH/POSTSBR304
- LH/RH/POSTTF304

**STAIRS - ST**

- LH/RH/POSTCD304
- LH/RH/POSTPFS304
- LH/RH/POSTSBR304
- LH/RH/POSTTF304

**Ø38.1 CENTRE POSTS**

- M381CENTRECD304
- M381CENTREPF304
- M381CENTRESBR304
- M381CENTRETF304

**STS TUBE**

- 50122M Ø50.8 - 2 METER
- 50123M Ø50.8 - 3 METER
- 50126M Ø50.8 - 6 METER
- 15122M Ø15.8 - 2 METER
- 15123M Ø15.8 - 3 METER
- 15126M STS Grade 304 Ø15.8 - 6 METER

**OPTIONAL EXTRAS**

- EZA5SY08SG1 Ø50.8 MAIN POST
- EZA5SY08DB1 Ø50.8 Ø90°/180° POST
- EZA5SY381SG1 Ø38.1 CENTRE POST
- SIKA250ML SIKA DUR EPOXY AP ZH0210 (250ML)
- SIKA1L SIKA DUR EPOXY AP ZH0122 (1 LITRE)
- U25490 STS 25.4 UPPER CAP 90°
- PACKING PACKING - CARDBOARD & BUBBLE WRAP
- EZJIG DRILLING EZ JIG
- POSTLEVEL POSTLEVEL
- ROLLING ROLLING

**NET PRICE (excluding VAT)**

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<th>SILVER ETCHING</th>
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<td>441 QTY</td>
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Please note, refer to page 16
## DIY Glass Posts

### Picture Code Description

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<td>GLASSMANPF STS Ø50.8 Main Post - Post Fix</td>
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<td>GLASSMANSBR STS Ø50.8 Main Post - Side Mount</td>
<td></td>
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<tr>
<td></td>
<td>GLASSMAINTF STS Ø50.8 Main Post 1.0m - Thread fix</td>
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| STAIRS - ST | GLASSMAIN90/180CD STS Ø50.8 90°/180° Post - Core Drill |
| | GLASSMAIN90/180PF STS Ø50.8 90°/180° Post - Post Fix |
| | GLASSMAIN90/180SBR STS Ø50.8 90°/180° Post - Side Mount |
| | GLASSMAIN90/180TF STS Ø50.8 90°/180° Post - Thread fix |

| Ø38.1 CENTRE POSTS | GLASS/90/180M/381 CD STS Ø38.1 Centre Post - Core Drill |
| | GLASS/90/180M/381 PF STS Ø38.1 Centre Post - Post Fix |
| | GLASS/90/180M/381SBR STS Ø38.1 Centre Post - Side Mount |
| | GLASS/90/180M/381 TF STS Ø38.1 Centre Post - Thread fix |

| STS TUBE | S080122M Ø50.8 - 2 METER |
| | S080123M Ø50.8 - 3 METER |
| | S080124M Ø50.8 - 6 METER |
| | 25121M Ø24.4 - 1 METER |

| OPTIONAL EXTRAS | FACTORY ASSEMBLY EZASSY50BSGL Ø50.8 MAIN POST |
| | EZASSY50BDBL Ø50.8 90°/180° POST |
| | EZASSY381SGI Ø38.1 CENTRE POST |
| | SIKA250ML SIKAKRETE EPOXY AP ZH0210 (250ML) |
| | SIKATEL SIKAKRETE EPOXY AP ZH0122 (1 LITRE) |
| | U25490 STS 25.4 UPPER CAP 90° |
| | PACKING PACKING - CARDBOARD & BUBBLE WRAP |
| | POSTLEVEL POSTLEVEL |
| | ROLLING ROLLING |

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Please note, refer to page 16
DIY CABLE POSTS - 5 STRAND

Please note, refer to page 16

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<td>CABIEMAINPOSTTFF</td>
<td>STS Ø50.8 Main Post - Post Fix</td>
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<td>Complete Posts with M8</td>
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| STS TUBE & CABLE | | |
| | S08122M | Ø50.8 - 2 METER |
| | S08123M | Ø50.8 - 3 METER |
| | S08126M | Ø50.8 - 6 METER |
| | 25121M | Ø25.4 - 1 METER |
| | CABLE | Ø4mm STS Cable P/M |

| FITTINGS | | |
| | WR.01.02.04.5 | Option 1: Eye & Crimp M8 |
| | CF-4 | Option 2: Grub Fix M8 |

<p>| EXTRAS | | |
| | SIKA250ML | SIKA DUR EPOXY AP ZH0210 (250ML) |
| | SIKA1L | SIKA DUR EPOXY AP ZH0122 (1 LITRE) |
| | PACKING | PACKING - CARDBOARD &amp; BUBBLE WRAP |
| | POSTLEVEL | POSTLEVEL |
| | U25490 | STS 25.4 UPPER CAP 90° |
| | ROLLING | ROLLING |</p>
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<td>POOL90CORNERTF</td>
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### EXTRAS

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Please note, refer to page 16
### BALCONY POSTS

Please note, refer to page 16

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## DIY ELEGANCE - INFILLS

### Posts

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<td>EZMP508TF</td>
<td>STS Ø50.8 Main Post - Threaded Fix</td>
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<td>EZMP508SM</td>
<td>STS Ø50.8 Main Post - Side Mount</td>
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<td>EZMP508WF</td>
<td>STS Ø50.8 Main Post - Wood Fix</td>
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### ELEGANCE COMBI PIPE - SILVER

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<tr>
<td>S08122</td>
<td>STS 304 Ø50.8 - 2 Meter</td>
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<tr>
<td>S08123</td>
<td>STS 304 Ø50.8 - 3 Meter</td>
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<td>S08124</td>
<td>STS 304 Ø50.8 - 4 Meter</td>
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<td>S08125</td>
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<td>S08126</td>
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### ELEGANCE COMBI PIPE - SILVER INFILL

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<tr>
<td>R254</td>
<td>Ø25.4 Ø1900 Straight Combi - Silver Plain</td>
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<tr>
<td>C318</td>
<td>Ø31.8 + Ø25.4 Ø1900 Straight Combi - Silver Plain</td>
</tr>
<tr>
<td>C381</td>
<td>Ø38.1 + Ø25.4 Ø1900 Straight Combi - Silver Plain</td>
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### ELEGANCE D INFILL

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<tbody>
<tr>
<td>D254</td>
<td>STS 304 Ø25.4 + Ø15.8 Ø1900 Etching Combi</td>
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<tr>
<td>D318</td>
<td>STS 304 Ø31.8 + Ø25.4 + Ø15.8 Ø1900 Etching Combi</td>
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<tr>
<td>SD254</td>
<td>STS 304 Ø25.4 + Ø15.8 Ø1900 Etching Combi</td>
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<tr>
<td>SD318</td>
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### ELEGANCE TWIN COMBI PIPES INFILL

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<tr>
<td>STP925</td>
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<td>GTP925</td>
<td>Ø191 x 925mm Twin Combi Gold - Gold Top</td>
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### ELEGANCE ROUND COMBI PIPE INFILL

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<tbody>
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<td>SRC660</td>
<td>Ø191 x 660mm + 250mm Round Combi Silver - Gold Top &amp; Bottom</td>
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<tr>
<td>GRC660</td>
<td>Ø191 x 660mm + 250mm Round Combi Gold - Gold Top &amp; Bottom</td>
</tr>
<tr>
<td>SRC760</td>
<td>Ø191 x 760mm + 350mm Round Combi Silver - Gold Top &amp; Bottom</td>
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<tr>
<td>GRC760</td>
<td>Ø191 x 760mm + 350mm Round Combi Gold - Gold Top &amp; Bottom</td>
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<tr>
<td>GRC660</td>
<td>Ø191 x 660mm Round Combi Gold - Gold Top &amp; Bottom</td>
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<td>TUBE</td>
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<td>FACTORY ASSEMBLY</td>
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</table>
AVAILABLE SYSTEMS
Tube system, Glass system, Pool, Balcony system, Elegance system, Side wall railing system.

COLOUR
Embro silver, Embro gold, Mirror gold.

FINISH
Satin/brushed, Mirror.

GRADE
304 inland and 316 coastal

Choose your kit from the layout. That simple!

SOLD IN KITS
DIY Balustrade kits, Straight-run stair, Landing, Balcony, Dog-leg stairs, Kite winder and Quarter-turn. All kits are sold as complete units.

INSIDE THE KIT

Straight-run
1.5mtr 2mtr 3mtr 4mtr 5mtr 6mtr

Landing
1.5mtr 2mtr 3mtr 4mtr 5mtr 6mtr

Balcony
1.5mtr 2mtr 3mtr 4mtr 5mtr 6mtr

Dog-Leg Stairs
Kite Winder Stairs
Quarter Turn Stairs

Drill jig, rivets, drill bits all included.

Box size
3m x 180mm x 125mm.
PARTS INCLUDED IN YOUR KIT

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>ILLUSTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>50,8 Main Posts</td>
<td>50,8 Top Rail</td>
</tr>
<tr>
<td>38,1 Centre Posts</td>
<td>15,8 Infill’s</td>
</tr>
</tbody>
</table>

- **50,8 Glass Posts**
  - 38,1 Glass Posts
  - Jointer cap (End Cap)

- **Side Fix Posts**
  - 50,8 Straight Socket

- **Elegance Infill’s**
  - 50,8 Stair Socket
**PARTS INCLUDED IN YOUR KIT**

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>ILLUSTRATION</th>
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<tr>
<td>15,8 Jointer ends</td>
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<tr>
<td>15,8 Middle Jointers</td>
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<tr>
<td>Socket/Jointer Drilling Jig</td>
<td><img src="image3.png" alt="Image" /> 4.8 Rivets</td>
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<td>Side Fix Bracket</td>
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<td></td>
<td><img src="image5.png" alt="Image" /> Cable Eye</td>
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<td></td>
<td><img src="image6.png" alt="Image" /> Cable crimp</td>
</tr>
<tr>
<td></td>
<td><img src="image7.png" alt="Image" /> Cable grub</td>
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</table>
LAYOUT OF STAIRCASES

Choose your DIY Kit Systems

STRAIGHT-RUN STAIRS

DOB-LEG STAIRS

LANDING/BALCONY

⚠️ Eg. 12m = 2 * 6m Boxes (or ANY combination)
PART B

Drawing requirement for this is only a sketch, not a 3D technical drawing.
Choose your DIY Kit Systems

- Elliptical Stair
- Spiral Stair
### EZ Rail Kit Systems

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**Note:** All prices are excluding VAT.
## EZ Rail Kit Systems

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### EZ Rail Kit - Dog Leg Staircase

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### EZ Rail Kit - Quarter Turn Staircase

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### EZ Rail Kit - Kite Winder Staircase

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### EZ Rail Kit - Spiral Staircase

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### EZ Rail Kit - Elliptical Staircase

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**EZ Rail Kit Coding System**

The coding system is based on the concept of segregating different systems. EZR rails are available in AISI 304 (in stock) and AISI 316 grade (made to order). Ti Titanium (made to order) Satin and Mirror Finish. The coding in our catalog is for standard AISI 304 components in mirror finish.
PART 2: TOP & SIDE FIX

(Side fix – only available in Tube, Glass, Cable and Balcony Systems)

**STEP 1**

- **TOP FIXING**
  - Option A: Core Drill
  - Option B: Core Drill, Drill Holes 100mm Deep

- **POST FIX**
- **WOOD FIX**
- **THREAD FIX**

- **SIDE FIX**
  - A: Insert Box Screws in Baseplate
  - B: Place Spacers
  - C: Mark & Drill Holes (Fix Plate to Set Centre to Centre)
  - D: Insert Plate in Post & Tighten

**STEP 2**

- A: Mark, Drill and Fix Bracket
- B: Plant Posts Perpendicular (Level) to the Ground by Using the DSP Post Level
TUBE SYSTEM

5 HORIZONTAL CROSS RAILS SOLD AS STANDARD SYSTEM

INSTALLATION OPTIONS
Core Drill, Post Fix, Thread Fix, Side Fix and Wood Fix
(Side fix – only available in Tube and Glass Systems)

Option 1 Fixing detail

Option 2 Fixing detail
TUBE SYSTEM

STEP 1

TOP VIEW

1. 1.2M APART
2. 10MM FROM CENTRE LINE
3. 50.8 LOWER CAP
4. 50.8 LOWER CAP
5. 38.1 LOWER CAP

MAKE SURE THE END POSTS START & END IN THE CORRECT POSITION.
A. MARK OUT EVENLY SPACED HOLES.
B. CENTRE POSTS SHOULD NOT BE MORE THAN 1.2M APART.
C. PLACE CENTRE OF MIDDLE POST 10MM AWAY FROM THE CENTRE LINE.
D. DRILL EVENLY SPACED HOLES. USE A 20MM STS MASARY BIT OR CORE DRILL.

INCORRECT MARKING & LAYOUT WILL RESULT IN INCORRECT INSTALLATION. TAKE CARE IN YOUR LAYOUT AND MARKING.

TOP VIEW, EXAMPLE OF CORNER
**STEP 2**

A. Plant posts perpendicular (level) to the ground by using the DSP post level.

B. Fill the drilled hole with two part epoxy (Sika). Plant post and allow epoxy to set/harden.

C. Slide the lower cap over the post to the bottom of the post.

D. Draw a line from top to bottom with straight edge.

E. Use DSP drilling jig to drill sockets.

F. Rivet inner socket to main post as required.

**STEP 3**

A. Measure the distance between the edges of the main post sockets using a measuring tape.

B. Cut the top pipe 30mm longer than the measure distance.

C. Insert the pipe into one side of the socket, then do the same on the other side.

*Note - you need to slightly pull the post towards you.*

D. Use a centre punch before drilling holes through socket.

E. Rivet the underside of the pipe to the socket as indicated in the diagram.
**STEP 4**

1. Mark holes and use a centre punch before drilling holes through socket. Disassemble the upper portion of the centre post and fix securely.
2. Use the line marked from top to bottom & mark required distance between your cross tube. You can have in-fills to the inside or out.
3. Place DSP drilling Jig on the centre of the line ready to drill.
4. Rivet end joiners to the main post as required.

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**STEP 5**

- **A** Measure the distance between the edges of the jointers.
- **B** Cut 15.8 pipe 8mm longer than the measured length.
- **C** Before fitting infill, slip middle jointer of through the infill pipe before fixing. Fit infill into jointer securely.
- **D** If necessary, twist jointers parallel to stairs. Twist the center post jointers smaller than parallel to the stairs using tools such as tongs.

If necessary connect two 25.4 connector joints to main posts.
GLASS SYSTEM

6mm to 12mm Toughen Glass

INSTALLATION OPTIONS
Core Drill, Post Fix, Thread Fix, Side Fix and Wood Fix
**GLASS SYSTEM**

**STEP 1**

**TOP VIEW**

1. **50.8 LOWER CAP**
2. **38.1 LOWER CAP**
3. **50.8 LOWER CAP**

1.2M APART

MAKE SURE THE END POSTS START & END IN THE CORRECT POSITION.

A. MARK OUT EVENLY SPACED HOLES.
B. CENTRE POSTS SHOULD NOT BE MORE THAN 1.2M APART.
C. DRILL EVENLY SPACED HOLES. USE A 20MM STS MASARY BIT OR CORE DRILL.

INCORRECT MARKING & LAYOUT WILL RESULT IN INCORRECT INSTALLATION. TAKE CARE IN YOUR LAYOUT AND MARKING.

**TOP VIEW: EXAMPLE OF CORNER**

1. **50.8 LOWER CAP**
2. **38.1 LOWER CAP**
3. **50.8 LOWER CAP**

1.2M APART

1.2M APART
STEP 2

A. Plant posts perpendicular (level) to the ground by using the DSP post level.
B. Fill the drilled hole with two part epoxy (Sika). Plant post and allow epoxy to set/harden.
C. Slide the lower cap over the post to the bottom of the post.
D. Draw a line from top to bottom with straight edge. Use DSP drilling jig to drill sockets.
E. Rivet inner socket to main post as required.

STEP 3

A. Measure the distance between the edges of the main post sockets using a measuring tape.
B. Cut the top pipe 30mm longer than the measure distance.
C. Insert the pipe into one side of the socket. Then do the same on the other side. *Note - you need to slightly pull the post towards you.
D. Use a centre punch before drilling holes through socket.
E. Rivet the underside of the pipe to the socket as indicated in the diagram.
GLASS SYSTEM

STEP 4

A  MARK HOLES AND USE A CENTRE PUNCH BEFORE DRILLING. DISASSEMBLE THE UPPER PORTION OF THE CENTRE POST AND FIX SECURELY.

B  DISASSEMBLE GLASS HOLDER, FIT NUT TO CLAMP, ALIGN CLAMP BEFORE TIGHTEN.
CABLE SYSTEM

INSTALLATION OPTIONS
Core Drill, Post Fix, Thread Fix, Side Fix and Wood Fix.
CABLE SYSTEM

STEP 1

1. Make sure the end posts start & end in the correct position.
2. Mark out evenly spaced holes.
3. Centre posts should not be more than 1.2m apart.
4. Drill evenly spaced holes. Use a 20mm STS MASARY BIT or CORE DRILL.

Incorrect marking & layout will result in incorrect installation. Take care in your layout and marking.
CABLE SYSTEM

STEP 2

1. Mark holes and use a centre punch before drilling holes through socket.
2. Disassemble the upper portion of the centre post and fix securely.

OPTION 1

OPTION 2

OPTION 3

CENTRE POST

www.ezrails.co.za
INSTALLATION OPTIONS
Core Drill, Post Fix and Thread Fix.

REMEMBER:
Posts are 1.2 metre high
STEP 1

MAKE SURE THE END POSTS START & END IN THE CORRECT POSITION.

A. MARK OUT EVENLY SPACED HOLES.
B. CENTRE POSTS SHOULD NOT BE MORE THAN 1.2M APART.
C. DRILL EVENLY SPACED HOLES. USE A 20MM STS MASARY BIT OR CORE DRILL.

INCORRECT MARKING & LAYOUT WILL RESULT IN INCORRECT INSTALLATION. TAKE CARE IN YOUR LAYOUT AND MARKING.
**STEP 2**

A. PLANT POSTS PERPENDICULAR (LEVEL) TO THE GROUND BY USING THE DSP POST LEVEL

B. FILL THE DRILLED HOLE WITH TWO PART EPOXY (SIKA). PLANT POST AND ALLOW EPOXY TO SET/HARDEN

C. SLIDE THE LOWER CAP OVER THE POST TO THE BOTTOM OF THE POST

**STEP 3**

A. DISASSEMBLE GLASS HOLDER, FIT NUT TO CLAMP, ALIGN CLAMP BEFORE TIGHTEN.
BALCONY SYSTEM

1. POOL SYSTEM

Part 2

2. BALCONY SYSTEM

INSTALLATION OPTIONS
Core Drill, Post Fix, Thread Fix and Side Fix.

REMEMBER:
Posts are 1 metre high
BALCONY SYSTEM

STEP 1

Make sure the end posts start & end in the correct position.

A. Mark out evenly spaced holes.
B. Centre posts should not be more than 1.2m apart.
C. Drill evenly spaced holes. Use a 20mm STS mastery bit or core drill.

Incorrect marking & layout will result in incorrect installation. Take care in your layout and marking.

TOP VIEW: EXAMPLE OF CORNER

50.8 LOWER CAP

1.2m APART

50.8 LOWER CAP

1.2m APART

50.8 LOWER CAP
STEP 2

A. Plant posts perpendicular (level) to the ground by using the DSP post level.

B. Fill the drilled hole with two part epoxy (Sika). Plant post and allow epoxy to set/harden.

C. Slide the lower cap over the post to the bottom of the post.

STEP 3

A. Disassemble glass holder, fit nut to clamp, align clamp before tighten.
ELEGANCE SYSTEM

STEP 1

INSTALLATION OPTIONS
Core Drill, Post Fix.

MAKE SURE THE END POSTS START & END IN THE CORRECT POSITION.

A. MARK OUT EVENLY SPACED HOLES.
B. ALL 135C/C CENTRE TO CENTRE BETWEEN POSTS.
C. DRILL EVENLY SPACED HOLES. USE A 20MM STS MASARY BIT OR CORE DRILL.

INCORRECT MARKING & LAYOUT WILL RESULT IN INCORRECT INSTALLATION. TAKE CARE IN YOUR LAYOUT AND MARKING.
STEP 2

A. Plant posts perpendicular (level) to the ground by using the DSP post level.

B. Fill the drilled hole with two part epoxy (Sika). Plant post and allow epoxy to set / harden.

C. Slide the lower cap over the post to the bottom of the post.

D. Draw a line from top to bottom with straight edge. Use DSP drilling jig to drill sockets.

E. Rivet inner socket to main post as required.

STEP 3

Measure the distance between the edges of the main post sockets using a measuring tape.

Cut the top pipe 30mm longer than the measured distance.

Insert the pipe into one side of the socket, then do the same on the other side.  
* Note - you need to slightly pull the post towards you.

Use a centre punch before drilling holes through socket.

Rivet the underside of the pipe to the socket as indicated in the diagram.
STEP 4

A MARK HOLES AND USE A CENTRE PUNCH BEFORE DRILLING HOLES THROUGH SOCKET.
STEP 1

MEASURE & MARK 850MM-1000MM FROM RISER AS PER YOUR REQUIREMENTS

MEASURE & MARK FOR FITTINGS
WALL MOUNTED SIDE HANDRAIL

Please Note: Specification, dimension, Design & Constructional features, given in this publication are not binding in detail. Given in good faith. This product does not cover situations where hand railing & balustrading may be exposed to abuse or to forces resulting in the impact of power driven objects. Please check that our installation will not interfere with any electrical conduits, cables, gas pipes, water pipes, waterproofing, tension cables etc. DSPSA will not be liable. Ensure your installation is safe & securely installed and meets with building code requirements. DSPSA standard terms and conditions apply.
Professional service by EZRail

Customer service at DSPSA forms an integral part of the value which the Company offers to customer. Our Customer Care and logistic Network is backed by a strong IT backbone.

We have duly trained and well equipped installation teams. They adhere to internationally acceptable best practices. Our Technical team interacts with customers in order to provide a creative and technically perfect solution in the fastest manner. DSPSA network of channel sales partners as well as specialized sales partners for projects sales ensures a quick response time to our customers. The sales network is supported by an underlying network of regional offices, Warehouse and installation teams. This ensures our ability to supply products and solutions in time with proper after sales support.

DSPSA terms and conditions apply, available on request.

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