FINISHED OPENING CIRCULAR OR SQUARE


PLAN AT LANDING
STANDARD STAIRWELL AND BALCONY RAILS


## MILD STEEL STAIR

## Construction Specifications [Components

## \&HQNH\&ROP Q

114.3 O.D X 4.5 mm mild steel pipe.

## Treads \& Risers

4 mm mild steel plate are laser cut and folded to uniform shape. Risers are between $205-220 \mathrm{~mm}$ as determined by the floor to floor height. Width of treads free of obstruction 625 mm . Anti slip tread pads are standard and are replaceable.

## Stair Handrail

Handrail $38 \times 5 \mathrm{~mm}$ round, unbroken PVC or Aluminium tube. Balusters $19 \times 1.6 \mathrm{~mm}$ square tubing with a maximum spacing of 125 mm . Handrail posts, top and bottom $40 \times 40 \times 1.6 \mathrm{~mm}$ SHS Grade 450. Continuous and uninterrupted handrail is provided on one side of stair with a minimum height above the tread nosing of 865 mm .

## Balcony Railing

End posts $40 \times 40 \times 1.6 \mathrm{~mm}$ SHS Grade 450 . Top rail $38 \times 1.6 \mathrm{~mm}$ round mild steel. Bottom rail and in-fills $19 \times 1.6 \mathrm{~mm}$ square tubing. Balcony rails are at a minimum height of 1000 mm above floor. Balusters are spaced with maximum gap of 125 mm .

## Stair Geometry

Stair has risers between 205-220mm 14 steps to circle at 25.7 degrees. The going measured at $7 / 10$ ths of clear width is 220 minimum. The slope relationship is between 640 \& 660 mm . Stair can be erected clockwise or anti clockwise and is mechanically joined on site.

## Headroom

Using a standard landing with timber top 75 mm thick with every 205 riser, clear headroom is 2100 mm . Every 1 mm added to riser, adds 12 mm to headroom.

## Kit Form

The stair \& handrail are kit - form. There is no welding, cutting or grinding required. This allows for easy installation on any finished floor surface.

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*Stairs Comply with National Construction Code (NCC 2022) as a performance solution - refer to PBDB \& PSR Template.



4 No. C'SK. SCREWBOLTS 75 X 8MM on 150 mm PCD
DRILL 8mm HOLE FOR MASONARY DRILL 7MM HOLE FOR TIMBER

4 No. C'SK. SCREWBOLTS 75 X 8MM
BASE PLATE DRILL 8mm HOLE FOR MASONARY DRILL 7MM HOLE FOR TIMBER

55 TYP DOWNTURN ON 4/SIDES
HANDRAIL POST BASE


LANDING DETAIL

EXAMPLES ONLY OF SETOUT - WE BUILD TO SUIT
1500 Diameter $\quad 205 \mathrm{~mm}$ to 220 mm Riser 14 Treads to Circle at 25.7'

| Floor to Floor Height | 2640 | 2860 | 3080 | 3300 | 3520 | 3740 | 3960 | 4180 | 4400 | 4620 | 4840 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of Risers | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Number of Treads | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| Going | 282 | 308 | 334 | 360 | 385 | 411 | 437 | 463 | 488 | 514 | 540 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 14 Steps to Circle at 25.7' |  |  |  |  |  |  |  |  |  |  |  |


|  | Landing Examples | ------- Dotted | tes fixing face |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Corner Square | Corner Triangle | Balcony Triangle | Cantilever | Round Triangle |

