

### MILD STEEL STAIR 2000 SERIES

#### Construction Specifications

Overall stair diameter is 1900mm. Stair opening must be 2000mm x 2000mm circular or square.

#### Centre Column

114.3 O.D. X 4.5mm mild steel pipe.

#### Landing

4mm mild steel plate is laser cut and folded to create turn-downs for fixing points. Can be attached to timber, concrete or steel.

#### Treads & Risers

4mm mild steel plate is laser cut and folded with a 100mm turn-down at the front of the tread and a 23mm turn-up at the back of the tread. Risers are between 175mm - 210mm as determined by the floor to floor height. Width of treads free of obstruction is 890mm. Anti slip tread mats are standard and are replaceable.

#### Stair Handrail

Polymer handrail system is 38 x 5mm round. Aluminium handrail system is 32 x 1.6mm CHS. Balusters are 19 x 1.6mm SHS with a maximum spacing of 125mm. Newel posts, top and bottom are 38 x 38 x 1.6mm SHS. The handrail is provided on one side of the stair with a minimum height above the tread nosing of 865mm.

#### Balustrade Panels

End posts are 38 x 38 x 1.6mm SHS mild steel. Top rail is 32 x 1.6mm CHS mild steel. Bottom rail and in-fills are 19 x 1.6mm SHS mild steel. Balcony rails are at a minimum height of 1000mm above floor. Balusters are spaced with a maximum gap of 125mm.

#### Stair Geometry

Stair has risers between 175mm – 210mm with 16 treads to circle at 22.5°. The going measured at 7/10ths of the unobstructed width is a minimum of 210mm. The slope relationship is between 605mm - 675mm. The gap between tread risers does not exceed 125mm.

#### Headroom

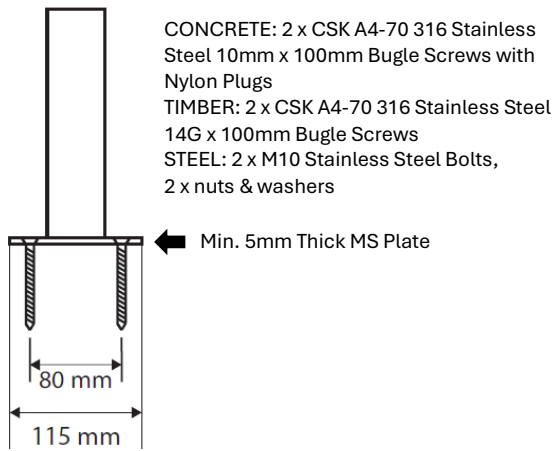
Using a standard landing with a 50mm turn-down, clear headroom must be 2000mm minimum.

#### Modular / Kit Form

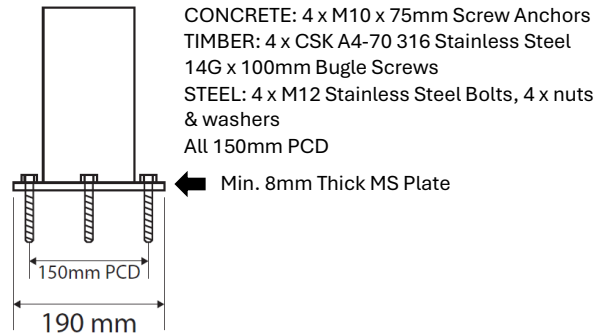
The spiral stair is pre-manufactured and mechanically assembled onsite. No welding, cutting or grinding is required.

This system is covered by Registered Design No's: 157138 & 150823 and may not be manufactured or copied, without the written consent of Spiralworks Pty Ltd.

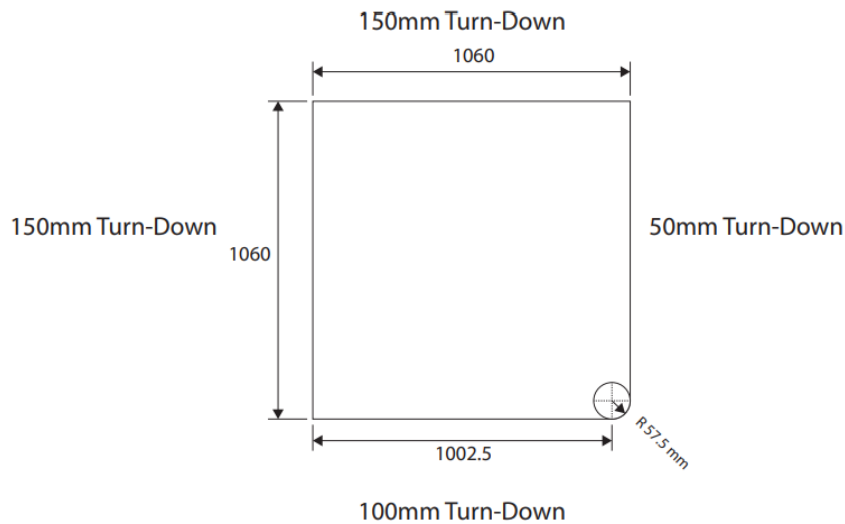
### Bottom Newel Post



### Centre Column Base Plate




### Standard Landing Detail



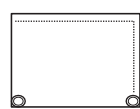
### EXAMPLES OF SETOUT - WE BUILD TO SUIT

175mm to 210mm Riser - 16 Treads to Circle at 22.5°  
Mid-landing required for 19 or more risers

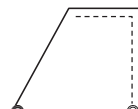
Floor to Floor Height	2280	2470	2660	2850	3040	3230	3420	3610	2800	3990	4180
Number of Risers	12	13	14	15	16	17	18	19	20	21	22
Number of Treads	11	12	13	14	15	16	17	18	19	20	21
Rotation	247	270	292	315	337	360	382	405	427	450	472



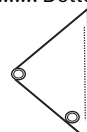
### Landing Examples ..... Dotted line denotes fixing face



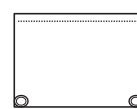
Corner Square



Corner Triangle



Balcony Triangle



Cantilever



Round Triangle