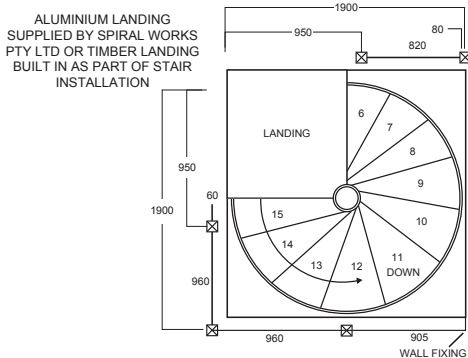
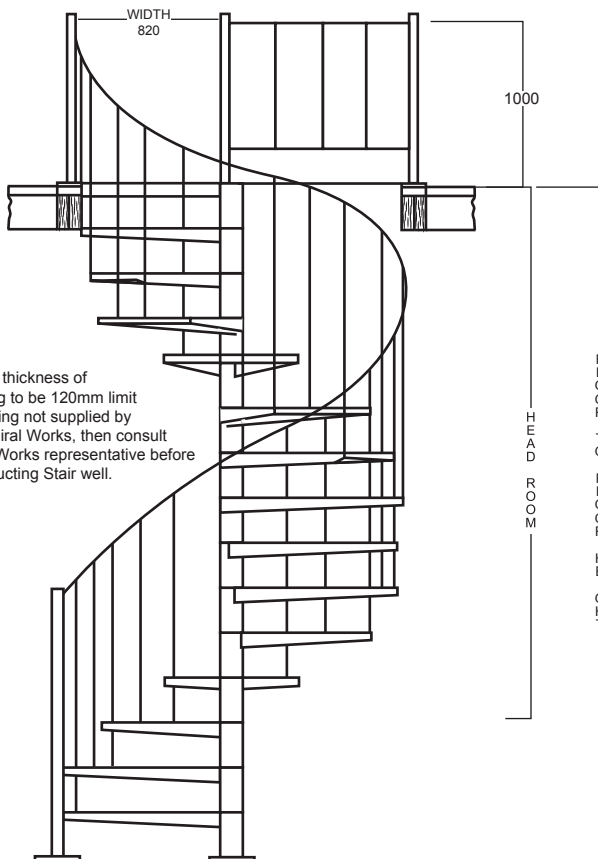


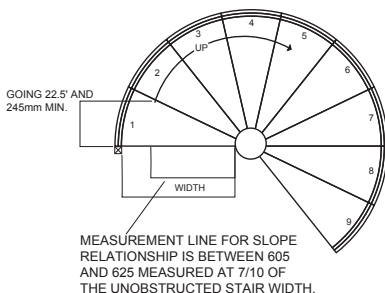
FINISHED OPENING CIRCULAR OR SQUARE



PLAN AT LANDING STANDARD STAIRWELL AND BALCONY RAILS



Note: Overall thickness of Landing to be 120mm limit. If Landing not supplied by The Spiral Works, then consult Spiral Works representative before Constructing Stair well.



ALUMINIUM STAIR

Construction Specifications & Components

Centre Column

114.3 O.D X 6.35 CHS Grade 6060 - T5 Aluminium.

Treads

6mm aluminium plate - 5005 H34. Laser cut and folded 90 x 90mm turn-down both sides to weld to riser. Risers are between 178 - 190mm in height as required by floor height. Width of tread free of obstruction 820mm. Anti slip tread pads are standard and are replaceable.

Stair Handrail

Handrail 38 x 5mm round, unbroken PVC. Balusters 19 x 2mm square tubing with a maximum spacing of 125mm. Handrail posts, top and bottom 50 x 50 x 3mm SHS Grade 6005A - T5 aluminium. Continuous and uninterrupted handrail is provided on one side of stair with a minimum height above the tread nosing of 865mm.

Balcony Railing - Aluminium

End posts 50 x 50 x 3mm SHS 6005A - T5 aluminium. Top rail 38 x 3mm CHS Grade 6005A - T5 round. Bottom rail and in-fills 19 x 2mm Grade 6005A - T5 square tubing. Balcony rails are at a minimum height of 1000mm above floor. Balusters are spaced with maximum gap of 125mm.

Stair Geometry

Stair has risers between 178 - 190mm 16 steps to circle at 22.5 degrees. The going measured at 7/10ths of clear width is 224mm minimum. The slope relationship is between 588 & 608mm. Stair can be erected clockwise or anti clockwise and is mechanically joined on site.

Headroom

Using a standard landing with timber top 75mm thick with every 178mm riser, clear headroom is 2100mm. Every 1mm added to riser, adds 12mm to headroom.

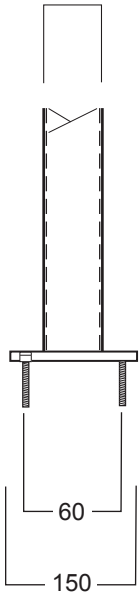
Kit Form

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

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.

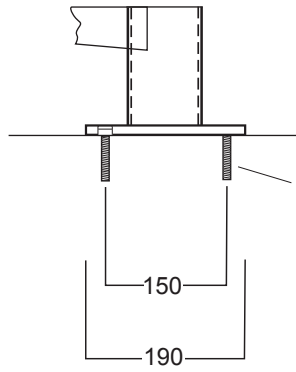
*Stairs Comply with National Construction Code (NCC 2022) as a performance solution - refer to PBDB & PSR Template.

50 X 50 X 3 SHS



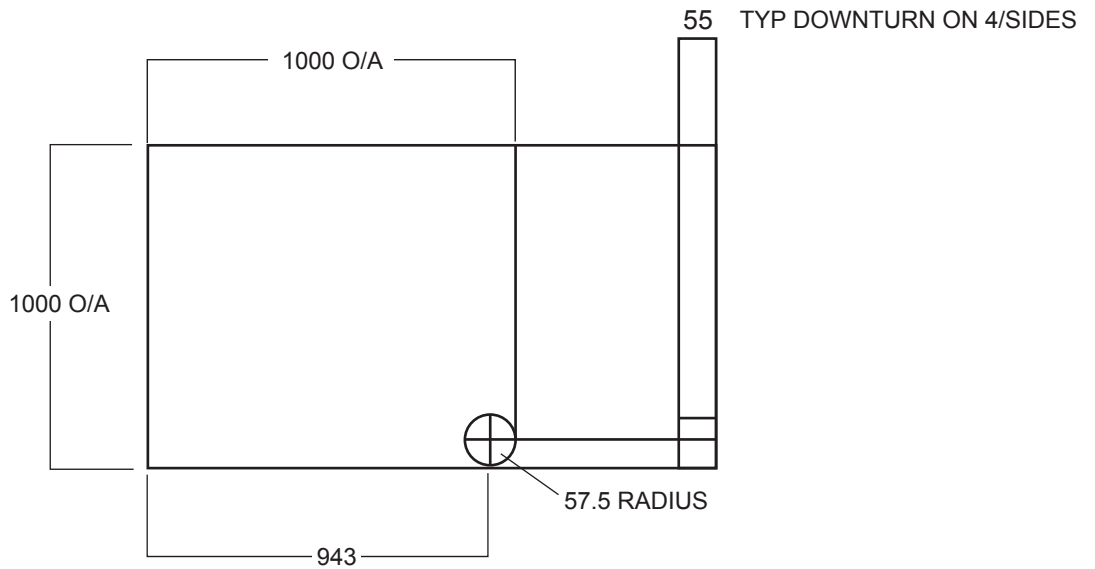
4 No. C'SK. SCREWBOLTS 75 X 10mm
 DRILL 8mm HOLE FOR MASONRY
 DRILL 7MM HOLE FOR TIMBER

HANDRAIL POST BASE



4 No. C'SK. SCREWBOLTS 75 X 10mm
 on 150mm PCD
 DRILL 8mm HOLE FOR MASONRY
 DRILL 7MM HOLE FOR TIMBER

BASE PLATE



LANDING DETAIL

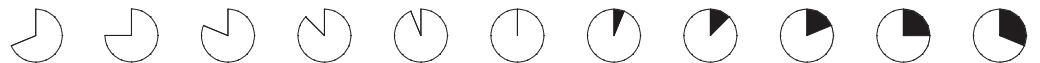
EXAMPLES ONLY OF SETOUT - WE BUILD TO SUIT

1900 Diameter

178mm to 190mm Riser 16 Treads to Circle at 22.5'

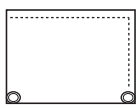
Floor to Floor Height	2280	2470	2660	2850	3040	3230	3420	3610	3800	3990	4180
Number of Risers	12	13	14	15	16	17	18	19	20	21	22
Number of Treads Going	11	12	13	14	15	16	17	18	19	20	21
	247	270	292	315	337	360	382	405	427	450	472

16 Steps to Circle at 22.5'

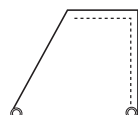


Landing Examples

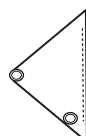
----- Dotted line denotes fixing face



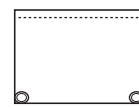
Corner Square



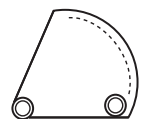
Corner Triangle



Balcony Triangle



Cantilever



Round Triangle