

REF: ACA211112 240703

## ENGINEERING EVALUATION CERTIFICATE:

**SPIRALWORKS 1300/12, 1500/14, 1800/16, 1900/16,  
NCC 2022, BCA Volumes One & Two, Class 1,2,3,4&10 buildings.**

**This certificate is issued by:** Acronem Consulting Australia Pty Ltd

**This certificate is issued to:** Spiralworks Pty Ltd,  
54 Frankston Gardens Drive,  
Carrum Downs, VIC, 3201, Australia  
[info@spiralstairs.com.au](mailto:info@spiralstairs.com.au)

**This certificate is issued in relation to the proposed building work at:** N/A

### Nature of proposed building work:

Construction of a \*new building/\*extension/\*alteration

Version of BCA applicable to certificate – NCC 2022, BCA Volumes One & Two

### Building classification:

Part of building: Internal private stair in a sole-occupancy unit of BCA Classification Class 2, 3 or 4 building.

Part of building: Enclosed stairway or an external stairway of BCA Classification Class 1 or 10 building.

### Prescribed class of building work for which this certificate is issued:

Design or part of the design of building work relating to \*Structural matter

### Documents setting out the design certified by this certificate:

Document:	Date:	Type:	Pages:	Prepared by:
<i>Spiral Staircase - Installation Guide</i>	June 2024	Installation Guide (attached)	16	Spiralworks
Spiralworks Information Fact Sheet 1300/12, Mild Steel Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks
Spiralworks Information Fact Sheet 1300/12, Aluminium Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks
Spiralworks Information Fact Sheet 1500/14, Mild Steel Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks
Spiralworks Information Fact Sheet 1500/14, Aluminium Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks
Spiralworks Information Fact Sheet 1800/16, Mild Steel Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks
Spiralworks Information Fact Sheet 1800/16, Aluminium Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks
Spiralworks Information Fact Sheet 1900/16, Mild Steel Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks
Spiralworks Information Fact Sheet 1900/16, Aluminium Stair	June 2024	Information Fact Sheet (attached)	2	Spiralworks



## Performance solution:

This certificate describes the basis of a Performance Solution that must address Performance Requirements & Deemed-to-Satisfy provisions relevant to stairways in buildings.

Performance Requirement(s) & Deemed-to-Satisfy Provision(s)	
B1P1, D1P2, D1P3	<ul style="list-style-type: none"> <li>- regarding the structural performance; and,</li> <li>- safe movement within; and,</li> <li>- a fall prevention barrier of;</li> </ul> <p>an internal private stair in a sole-occupancy unit of BCA Classification Class 2, 3 or 4 building.</p>
H1P1, H5P1, H5P2	<ul style="list-style-type: none"> <li>- regarding the structural performance; and,</li> <li>- movement within; and,</li> <li>- a fall prevention barrier of;</li> </ul> <p>an enclosed stairway or an external stairway of BCA Classification Class 1 or 10 building.</p>
<b>Engineering Report supporting this design:</b> <i>[details the registered building practitioner uses or relies on in determining that the performance solution complies with the performance requirements —</i> <i>(i)the assessment method or methods;</i> Evidence of Suitability, Expert Judgement <i>(ii)the details of any expert judgement;</i> <ul style="list-style-type: none"> <li>- Certificate of Compliance for Proposed Building Work, Spiralworks Mild Steel Stairs 1300/12, 1500/14, 1800/16, 1900/16, 14/06/2024 (certificate valid to 04/06/2026).</li> <li>- Certificate of Compliance for Proposed Building Work, Spiralworks Aluminium Stairs 1300/12, 1500/14, 1800/16, 1900/16, 14/06/2024 (certificate valid to 04/06/2026).</li> <li>- Structural Compliance Certificate for Building Design or Specification, Spiralworks - 1300/12 Aluminium Spiral Stairs, 1500/14 Aluminium Spiral Stairs, 1800/16 Aluminium Spiral Stairs, 1900/16 Aluminium Spiral Stairs, 14/06/2024 (certificate valid to 04/06/2026).</li> <li>- Structural Compliance Certificate for Building Design or Specification, Spiralworks - 1300/12 Spiral Stairs, 1500/14 Spiral Stairs, 1800/16 Spiral Stairs, 1900/16 Spiral Stairs, 14/06/2024 (certificate valid to 04/06/2026). <i>Note – refers to Spiralworks Mild Steel stairs as evidenced by referenced calculations Q18-038 Revision A dated 8-9-21 pages 1 to 20.</i></li> <li>- Acronem Consulting Australia, July 3, 2024, <i>RE: Spiralworks Aluminium Spiral Stair Systems 1300/12, 1500/14, 1800/16, 1900/16 &amp; Spiralworks Mild Steel Spiral Stair Systems 1300/12, 1500/14, 1800/16, 1900/16.</i></li> <li>- CSIRO Appraisals, Technical Assessment 336, Spiralworks, December 2007</li> </ul> <i>(iii)the details of any tests or calculations;</i> <ul style="list-style-type: none"> <li>- ATTAR Report 16/10569.1, 15 September 2016, Slip Resistance</li> <li>- ATTAR Report 16/10569.2, 15 September 2016, Slip Resistance</li> <li>- CSIRO Report Number 4043s, 29 August 2007, Slip Resistance</li> <li>- Spiralworks, 13<sup>th</sup> November 2018 (Galvanising, Bolting, Plastic Extrusions)</li> </ul> <i>(iv)the details of any standards or other information.]</i> <ul style="list-style-type: none"> <li>- Documents setting out the design as referenced above and attached.</li> </ul>	

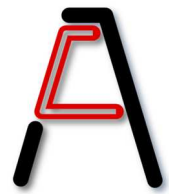
The design certified by this certificate forms the foundation of a performance solution that, via a performance-based design brief (PBDB), must demonstrate compliance with the National Construction Code.

I certify this design will comply with the NCC requirements specified in this certificate provided it is used, designed, installed and maintained in accordance with the instructions, limitations, conditions and validity requirements of the referenced documentation.

I believe that I hold the required skills, experience and knowledge to issue this certificate and can demonstrate this if requested to do so.

**Engineer:** Cameron Chick BE(Hons), Ph.D, GC.Com.(Mktg), M.AIRAH, RPEQ  
 REGISTERED PROFESSIONAL ENGINEER - QLD. (STRUCTURAL): 15370, VIC. (CIVIL): PE0000967  
 Date of issue of certificate: 03/07/2024

Signature:



## ATTACHMENTS:



### SPIRAL STAIRCASE - INSTALLATION GUIDE



Hello Wonderful Customer,

Big congratulations on choosing to bring a touch of architectural delight into your space with this beautiful spiral staircase from Spiralworks! We're absolutely thrilled that you've chosen us to be part of your journey, and we want to express our heartfelt thanks.

At Spiralworks, we're all about crafting things with love and precision. Your new spiral staircase is more than just a functional addition; it's a piece of art that will blend seamlessly within your space. Our talented team put their hearts into creating a staircase that not only meets but exceeds your expectations.

As you ascend and descend your new staircase, we hope it becomes a natural focal point, adding a touch of elegance and charm to your surroundings.

If you have any questions or need a friendly chat about your new addition, our customer service team is here for you.

Congratulations once again on bringing the beauty of Spiralworks into your space. May your staircase be a source of joy, connection and elegance in your home.

Warmest regards,

*Cindy Keys*

Cindy Keys  
Director  
Spiralworks Pty Ltd

#### **BOLTS LIST**

##### Package A

Bolt landing to opening - Hex batten screws 75mm/100mm x 6 of each  
Bolt top riser to landing - M8x30 4 x washers, 4 x nuts, 4 x bolts  
Bolt base plate to floor - M10x75/100 anchor screws (Spare 6 x landing fixings to be used if timber)  
Bolt bottom newel post to floor - 2 x inserts 10x50 with #14x14G 50mm stainless steel  
Balustrade panel - M8x30 x 4 bolts, 2 x washers, 2 x nuts  
Spare - 5 x tek screws, 5 x widget screws, 5 x grub screws

##### Package B

Top newel post to tread & landing - 2 x M6 buttons (holes pre-drilled)  
Baluster post to tread - Stainless steel M6x20mm button head cap screws  
Baluster block to tread - Main Baluster will be connected - Stainless steel M6x20mm button head cap screws  
Bottom newel to tread - 1 x Stainless steel M6x20mm button head cap screws

##### Package C

Riser nuts & washers to bolt down treads (riser count) - M20 gal nut and washer

##### Package D

All-thread joiners - M20x60 joiners supplied  
Locking up joiners - M20 nuts - 1 per joiner  
Double lock starting bottom tread only, refer to image - M20 nuts x 2 (refer to step 4)

##### Package E

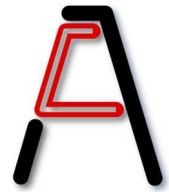
Bolt stair handrail to baluster widget - 2 screws per widget 8Gx25 screw PH CSK

##### Package F

Timber tread fixings - 8Gx16 pan head screws

#### **For Aluminum Stairs only:**

Treads are numbered for correct placement of the central column.



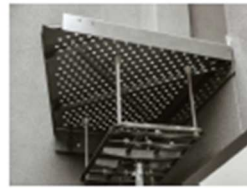
## TOOLS REQUIRED

- > 12" shifter for 30mm nuts
- > Tape Measure
- > Spirit Level
- > Poly Cutter or razor blade to cut polymer handrail
- > Grinder with cutting disc
- > Cordless Drill
- > Props or timber supports to hold stair whilst assembling
- > Lifter (Optional) - available from Hire Companies L.e., Kinnards Hire

## TOOLS SUPPLIED

- > Allen keys – 4mm & 5mm
- > Riser spanner

## Step 1:



### Before you begin:

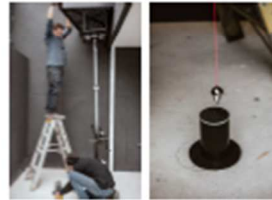
Please check the measurement of the floor-to-floor height against the staircase drawing provided to ensure they match.

Bolts and Fixings are provided for both concrete and timber options.

Temporarily install the Landing Platform into position with minimal fixings (for safety). These fixings will need to be loosened later to allow connection to the Top Riser (refer Step 8).

Note: For safety, if the Landing Platform is not bolted securely, remove it and place on floor carefully until later.

## Step 2:



Drop the Plum Line down from the centre of the Top Riser. Once centre has been pinpointed, bolt to the floor using fixings supplied.

Note: To connect Top Riser to Platform, if you don't have a plum bob, a (laser) level can be used.

## Step 3:



Bolt the Centre Base Plate to the ground floor with the bolts provided.

Place the Cover Plate over the Base Plate.

## Step 4:



Bolt All-Thread to the bottom Tread (which has three grub screws inserted). Place 2 x M20 Nuts, under Tread and 1 x M20 Nut & Washer above Plate inside Riser.

## Step 5:



Place Tread Assembly over the Base Plate and pack underneath with some timber or a jack to keep it level – tighten grub screws.

## Step 6:



**Note: FOR ALUMINIUM STAIRS ONLY** Treads are numbered from 18 (Bottom Tread) ascending towards Top Riser.

Slide next Tread down the All-Thread.

Bolt the main Baluster Post to the Treads.

Align by 'eye' with Centre Column for plumb/level.

Lock the Tread into position by tightening M20 washer and nut.

Note: Only tighten risers after main Balusters are tight.

## Step 7:



Repeat step 6 until you are approaching the end of the first piece of All-Thread.

After you have tightened the last Riser nut, apply an M20 nut and an M20 Thread Joiner to the end of the All-Thread, locking them together (Fig. 1).

This allows for another piece of All-Thread to be joined, then tighten the new piece (Fig. 2).

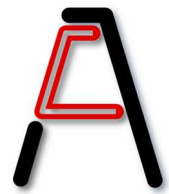
Note: All-Thread may need to be trimmed to allow space to make the joiner assembly sit within the Riser cavity.

### \*IMPORTANT:

Support Central Column (Treads) to stop staircase toppling over. This can be done by using pieces of timber cut to size, alternatively use telescopic clamps which are available at tool shops (refer below).







## Step 8:



Continue the previous step until you reach the Top Riser/ Landing Connection.

Connect Landing to Top Riser.

To make connection, Landing Platform will need to be tilted up to allow space for the Top Riser to ratchet underneath - align connection holes, bolt in place using 4 x M16x30 bolts with nuts and washers.

## Step 9:



Attach top Newel Post to top Tread. Then bolt Newel Post to the Landing Platform.

Note: Stair may need to be rotated to achieve this.

## Step 10:



All posts need to be level (from top to bottom) including top Newel Post. This ensures your stair is rotated and aligned correctly.

## Step 11:



Ensure Newel Post is plumb, mark holes on ground, fix into place using plug and/or bugle screws.

## Step 12:

### INSTALLING POLYMER HANDRAIL:

Unroll the Polymer Handrail, working from top down, screw Handrail to the main Balustrade (Fig 3) using the 8Gx25 screws supplied. Ensure posts remain plumb while fixing Widget.

Widgets are adjustable, once fixed to the handrail, tighten the (pre-installed) Widget screw to lock in position (Fig 4).

Note: (If installing an Aluminium Handrail), please refer to separate instructions.



Fig 3

Fig 4

## Step 13:



Fit Blocks to Treads loosely using M6 bolts. Face the grub screws to the rear of the Treads.

Insert remaining Balusters into Blocks and screw Balusters to Handrail using a Level to keep plumb. We suggest installing smaller posts before medium posts.

Do not tighten blocks or grub screws at this stage.

## Step 14:

Using a 4mm Allen Key, tighten all the Blocks from underneath the Treads. Also ensure main Baluster Post bolts are still tight, as they may have loosened during the process.

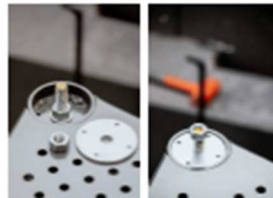
Next tighten the grub screws in the blocks.

Note: Be sure to tighten M6 screws prior to the grub screws to ensure Handrail remains level.



## Step 15:

### INSTALL BALUSTRADE PANELS



Install Balustrade Panels using M8 bolts and nuts.

Place the Top Cover Plate (Round Disc - provided) with the 'threaded' holes inside the Top Riser and lock up with an M20 nut.

Note: no washer is required.

Align Balustrade Panel Plate to the 'threaded' holes, then tighten bolts.

Note: If there is left over All-Thread it will work as extra support for the Balustrade Post.

We suggest wrapping the end of the All-Thread with Insulation tape, so it doesn't rattle inside the post.

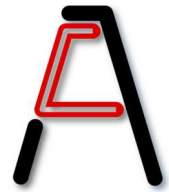
We recommend a maximum of 500mm into the upright.

Should you not require Balustrade Panels, you may have a Center Cap to screw on top of the Centre Column with the long M8 bolts provided.

## Step 16:



Cut Handrail Coil to desired length and install End Caps at both ends.



**OPTIONAL ACCESSORIES:**

**NON-SLIP TREAD MATS:**

Apply Tread Mats if they are part of the kit, leaving a border at the front of the Tread of approximately 10mm - keeping the Mat as central as possible.



**TIMBER TREADS**

Fit Timber Treads to staircase Treads. Use a plastic G clamp (so as not to damage Timber Tread) to hold in position while screwing Treads from underneath using screws provided.



**CONGRATULATIONS - YOUR STAIR IS COMPLETE!**

Thank you for purchasing your staircase from Spiralworks. We hope you have many years of enjoyment from your new staircase and would like to recommend the following maintenance suggestions.

**MAINTENANCE**

Looking after the finished product

Maintain both the aesthetic and functional properties of your powder coated finish by regularly cleaning the coated surface every six months. This will keep your powder coating looking good for many years to come.

Cleaning is simple

1. Remove coarse or loose dirt with a soft wet sponge or cloth and dry off.
2. Wash the powder coated finish with a warm, mild detergent solution using a soft cloth, sponge, or brush.

Be careful not to damage the coating surface by using harsh materials and cleaners such as steel wool, scouring pads, scrapers, abrasive liquids or powders. If solvents must be used, mild solvents such as Isopropanol is recommended. Always test a small, unseen area of the coating prior to cleaning with solvents.



**WARRANTY**

We offer an Industry standard 7-year structural warranty. This covers metal components only. Other components up to 3 years, will be assessed on a case-by-case basis. The warranty does not cover accidental or deliberate damage to the staircase. For further details visit our website.

**TESTIMONIALS**

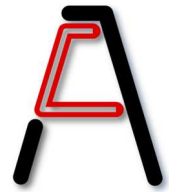
As a small family business, your support is genuinely appreciated. In order to continuously improve and be an industry leader, we would love to hear about your experience with our team.

Upload your testimonial via our website or find us on Facebook and Instagram under Spiralworks Australia

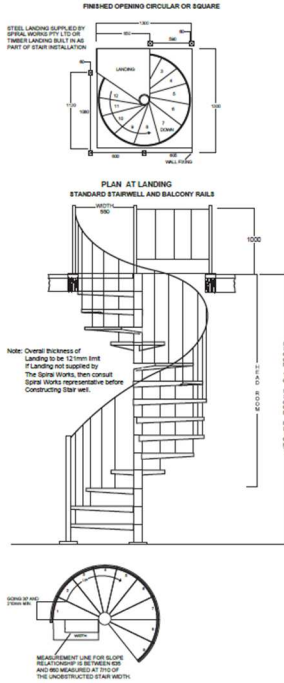
For 1300 Series, 1500 Series, 1800 Series, 1900 Series  
Aluminium & Mild Steel - Revised June 2024 V1



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## MILD STEEL STAIR

### Construction Specifications & Components

**Centre Column**  
114.3 O.D. X 4.5mm mild steel pipe.

**Treads & Risers**  
4mm mild steel plate are laser cut and folded to uniform shape. Risers are between 205 - 220mm as determined by the floor to floor height. Width of treads free of obstruction 525mm. Anti slip tread pads are standard and are replaceable.

**Stair Handrail**  
Handrail 38 x 5mm round, unbroken PVC or Aluminium tube. Balusters 19 x 1.6mm square tubing with a maximum spacing of 125mm. Handrail posts, top and bottom 40 x 40 x 1.6mm SHS Grade 450. Continuous and uninterrupted handrail is provided on one side of stair with a minimum height above the tread nosing of 855mm.

**Balcony Railing**  
End posts 40 x 40 x 1.6mm SHS Grade 450. Top rail 38 x 1.6mm round mild steel. Bottom rail and in-fills 19 x 1.6mm 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 205 - 220mm 12 steps to circle at 30 degrees. The going measured at 710ths of clear width is 220mm minimum. The slope relationship is between 635 & 650mm. Stair can be erected clockwise or anti clockwise and is mechanically joined on site.

**Headroom**  
Using a standard 60 degree landing with a 95mm downturn with 205mm minimum 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.

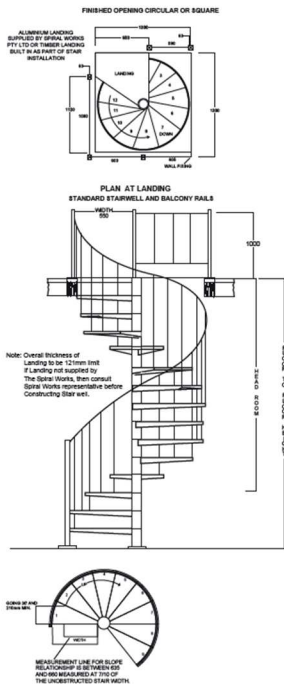
\*Stairs Comply with National Construction Code (NCC 2022) as a performance solution - refer to PBDB & PSR Template.

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Registered Design Nos: 157138 & 105823  
Revised June 2024 V1

## INFORMATION FACT SHEET 1300 / 12 SPIRAL STAIRS



54 Frankston Gardens Drive  
Carrum Downs, VIC 3201  
1300 137 392  
sales@spiralstairs.com.au



## ALUMINIUM STAIR

### Construction Specifications & Components

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

**Treads & Risers**  
6mm aluminium plate - 5005 H34. Laser cut and folded 90 x 90mm turn-down both sides to weld to riser. Risers are between 205 - 220mm in height as required by floor height. Width of tread free of obstruction 525mm. Anti slip tread pads are standard and are replaceable.

**Stair Handrail**  
Handrail 38 x 5mm round, unbroken PVC or Aluminium tube. 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 855mm.

**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 205 - 220mm 12 steps to circle at 30 degrees. The going measured at 710ths of clear width is 220mm minimum. The slope relationship is between 635 & 650mm. Stair can be erected clockwise or anti clockwise and is mechanically joined on site.

**Headroom**  
Using a standard 60 degree landing with a 95mm downturn with 205mm minimum 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.

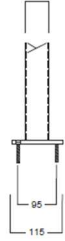
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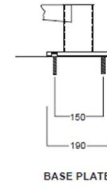
## INFORMATION FACT SHEET 1300 / 12 SPIRAL STAIRS

40 X 40 X 1.6 SHS Grade 450



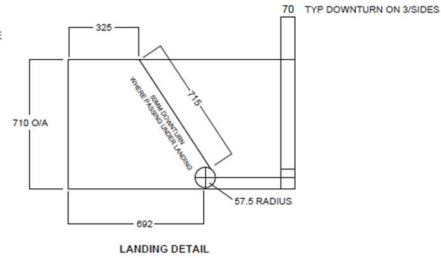
HANDRAIL POST BASE

4 No. C'SK. SCREWBOLTS 75 X 6MM  
DRILL 8mm HOLE FOR MASONARY  
DRILL 7MM HOLE FOR TIMBER



BASE PLATE

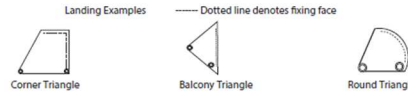
4 No. C'SK. SCREWBOLTS 75 X 8MM  
on 150mm PCD  
DRILL 8mm HOLE FOR MASONARY  
DRILL 7MM HOLE FOR TIMBER



EXAMPLES ONLY OF SETOUT - WE BUILD TO SUIT  
1300 Diameter 205mm to 220mm Riser 12 Treads to Circle at 30°

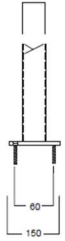
Floor to Floor Height	2630	2850	3070	3290	3510	3730	3950	4170	4390	4610	4830
Number of Risers	12	13	14	15	16	17	18	19	20	21	22
Number of Treads	11	12	13	14	15	16	17	18	19	20	21
Going	330	360	390	420	450	480	510	540	570	600	630

12 Steps to Circle at 30°



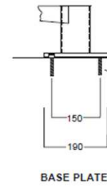
## INFORMATION FACT SHEET 1300 / 12 SPIRAL STAIRS

50 x 50 x 3 SHS



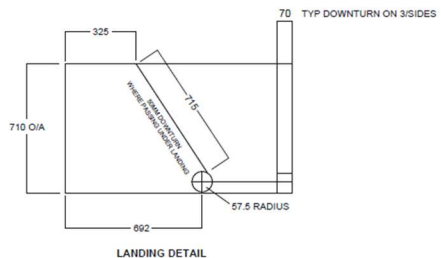
HANDRAIL POST BASE

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BASE PLATE

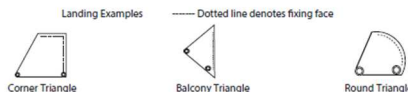
4 No. C'SK. SCREWBOLTS 75 X 10mm  
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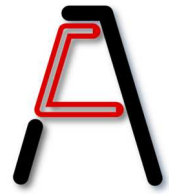
Floor to Floor Height	2630	2850	3070	3290	3510	3730	3950	4170	4390	4610	4830
Number of Risers	12	13	14	15	16	17	18	19	20	21	22
Number of Treads	11	12	13	14	15	16	17	18	19	20	21
Going	330	360	390	420	450	480	510	540	570	600	630

12 Steps to Circle at 30°

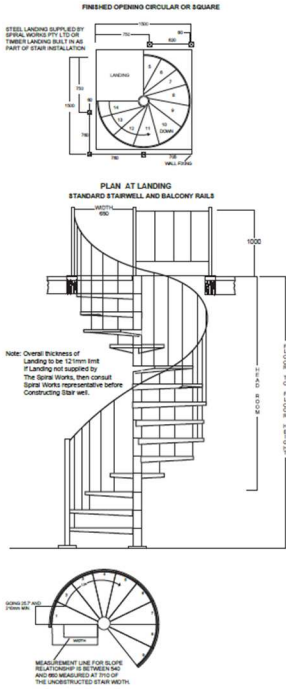


## INFORMATION FACT SHEET 1300 / 12 SPIRAL STAIRS





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## MILD STEEL STAIR

### Construction Specifications & Components

**Centre Column**  
 114.3 O.D x 4.5mm mild steel pipe.

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

**Stair Handrail**  
 Handrail 38 x 5mm round, unbroken PVC or Aluminium tube. Balusters 19 x 1.6mm square tubing with a maximum spacing of 125mm. Handrail posts, top and bottom 40 x 40 x 1.6mm SHS Grade 450. Continuous and uninterrupted handrail is provided on one side of stair with a minimum height above the tread nosing of 885mm.

**Balcony Railing**  
 End posts 40 x 40 x 1.6mm SHS Grade 450. Top rail 38 x 1.6mm round mild steel. Bottom rail and in-fills 19 x 1.6mm 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 205 - 220mm 14 steps to circle at 25.7 degrees. The going measured at 7/10ths of clear width is 220 minimum. The slope relationship is between 640 & 660mm. 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 205 riser, clear headroom is 2100mm. Every 1mm added to riser, adds 12mm to headroom.

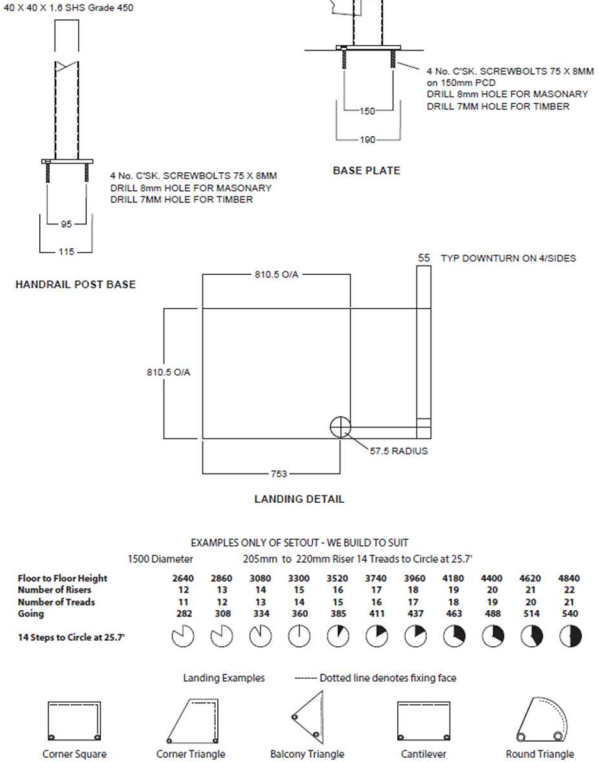
**Kit Form**  
 The stair & handrail are kit - form. There is no welding, cutting or grinding required. This allows for easy installation on any finished floor surface.

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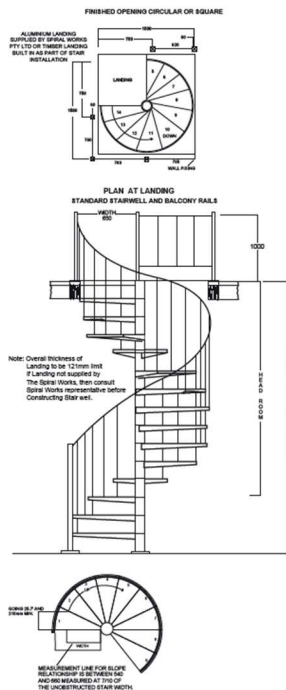
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 1300 137 352  
 sales@spiralstairs.com.au



## ALUMINIUM STAIR

### Construction Specifications & Components

**Centre Column**  
 114.3 O.D x 6.35 CHS Grade 6060 - T5 Aluminium.

**Treads & Risers**  
 6mm aluminium plate - 5005 H34. Laser cut and folded 90 x 90mm turn-down both sides to weld to riser. Risers are between 205 - 220mm in height as required by floor height. Width of tread free of obstruction 625mm. Anti slip tread pads are standard and are replaceable.

**Stair Handrail**  
 Handrail 38 x 5mm round, unbroken PVC or Aluminium tube. Balusters 19 x 1.6mm 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 885mm.

**Balcony Railing - Aluminium**  
 End posts 50 x 50 x 3mm SHS Grade 6005A - T5 aluminium. Top rail 38 x 1.6mm round mild steel. Bottom rail and in-fills 19 x 1.6mm 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 205 - 220mm 14 steps to circle at 25.7 degrees. The going measured at 7/10ths of clear width is 220mm minimum. The slope relationship is between 640 & 660mm. 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 205mm riser, clear headroom is 2100mm. Every 1mm added to riser, adds 12mm to headroom.

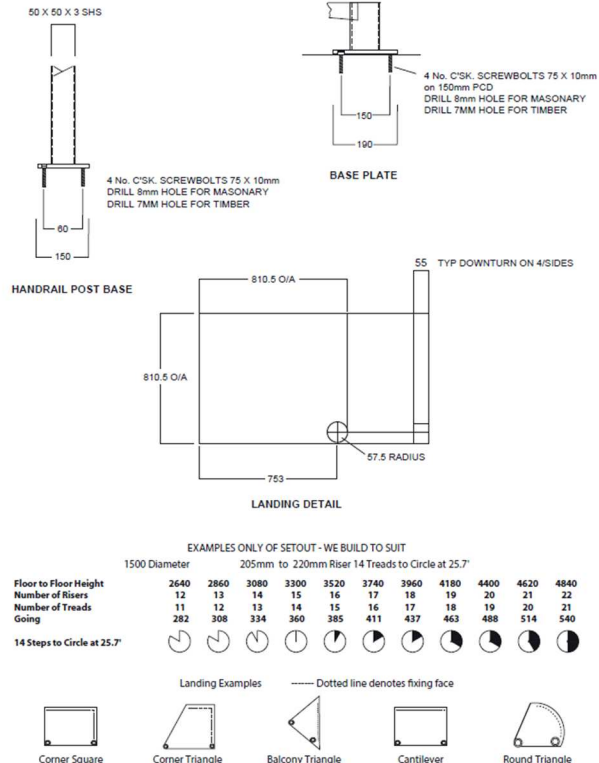
**Kit Form**  
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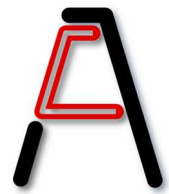
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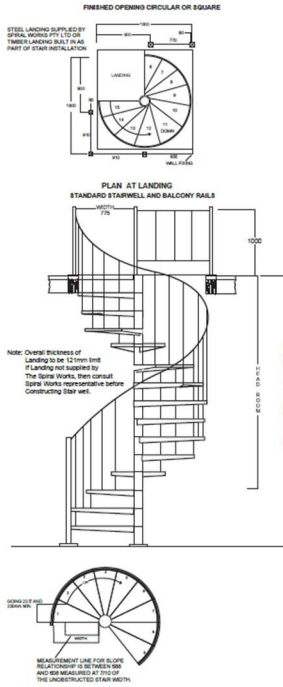


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## MILD STEEL STAIR

### Construction Specifications & Components

**Centre Column**  
114.3 O.D x 4.5mm mild steel pipe.

**Treads & Risers**  
Treads & Risers 4mm mild steel plate are laser cut and folded to uniform shape. Risers are between 178 - 190mm as determined by the floor to floor height. Width of treads free of obstruction 760mm. Anti slip tread pads are standard and are replaceable.

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

**Balcony Railing**  
End posts 40 x 40 x 1.6mm SHS Grade 450. Top rail 38 x 1.6mm round mild steel. Bottom rail and in-fills 19 x 1.6mm 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 226mm minimum. The slope relationship is between 568 & 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.

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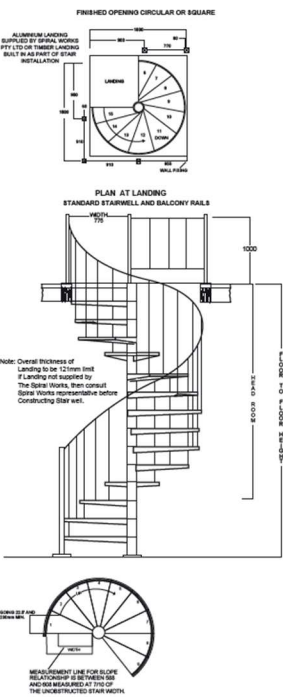
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## ALUMINIUM STAIR

### Construction Specifications & Components

**Centre Column**  
114.3 O.D x 0.35 CHS Grade 6000 - 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 760mm. Anti slip tread pads are standard and are replaceable.

**Stair Handrail**  
Handrail 38 x 5mm round, unbroken PVC or Aluminium tube. 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 226mm minimum. The slope relationship is between 568 & 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.

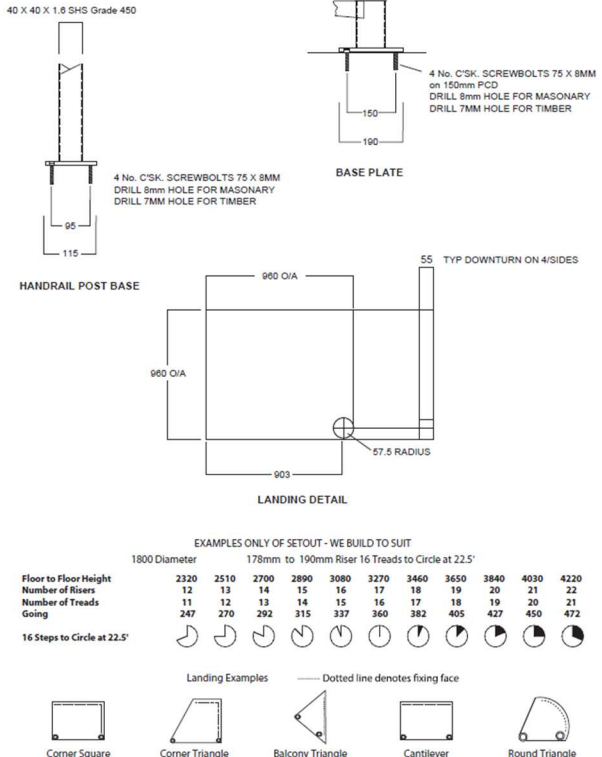
**Kit Form**  
The stair & handrail are kit - form. There is no welding, cutting or grinding required. This allows for easy installation on any finished floor surface.

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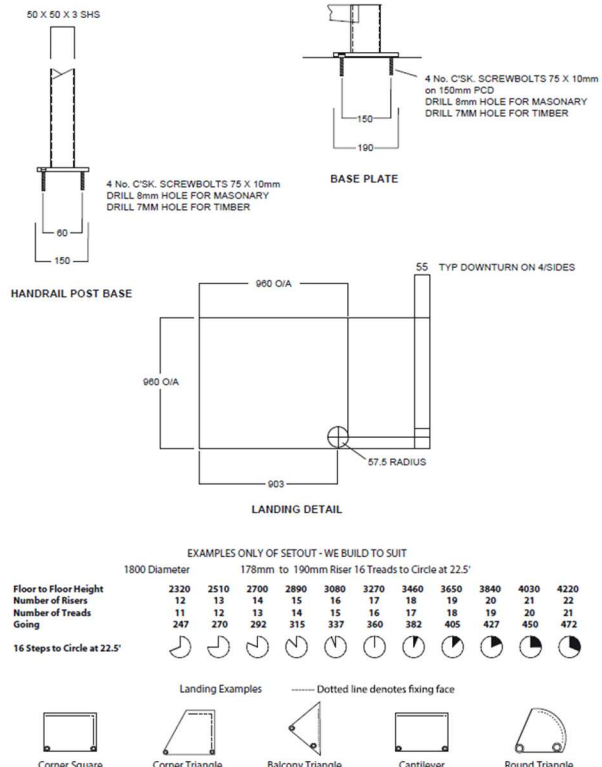
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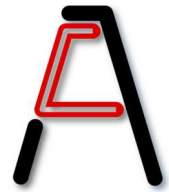
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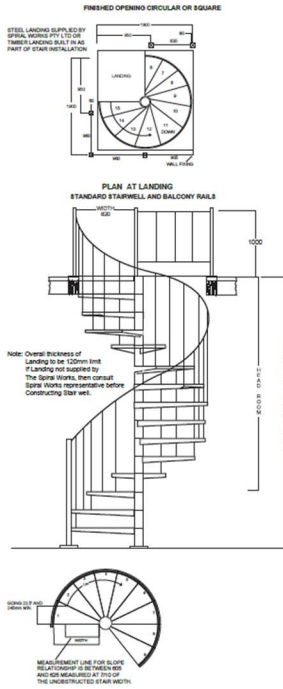
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## MILD STEEL STAIR

### Construction Specifications & Components

**Centre Column**  
114.3 O.D x 4.5mm mild steel pipe.

**Treads & Risers**  
Treads & Risers 4mm mild steel plate are laser cut and folded to uniform shape. Risers are between 178 - 190mm as determined by the floor to floor height. Width of treads free of obstruction 820mm. Anti-slip tread pads are standard and are replaceable.

**Stair Handrail**  
Handrail 38 x 5mm round, unbroken PVC or Aluminium tube. Balusters 19 x 1.6mm square tubing with a maximum spacing of 125mm. Handrail posts, top and bottom 40 x 40 x 1.6mm SHS Grade 450. Continuous and uninterrupted handrail is provided on one side of stair with a minimum height above the tread nosing of 885mm.

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

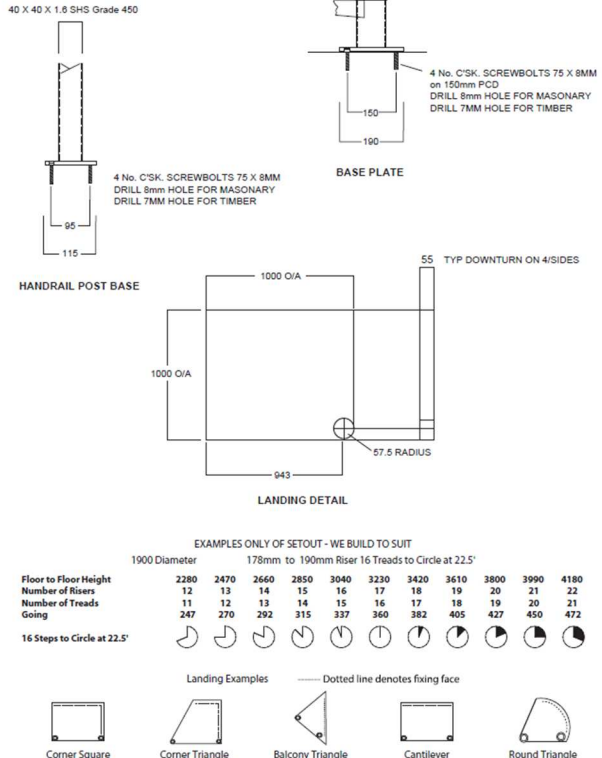
**Stair Geometry**  
Stair has risers between 178 - 190mm 16 steps to circle at 22.5 degrees. The going measured at 710ths of clear width is 224mm minimum. The slope relationship is between 588 & 808. Stair can be erected clockwise or anti clockwise and is mechanically joined on site.

**Headroom**  
Using a standard landing with timber top 75mm thick with every 178mm riser, clear headroom is 2100. 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.

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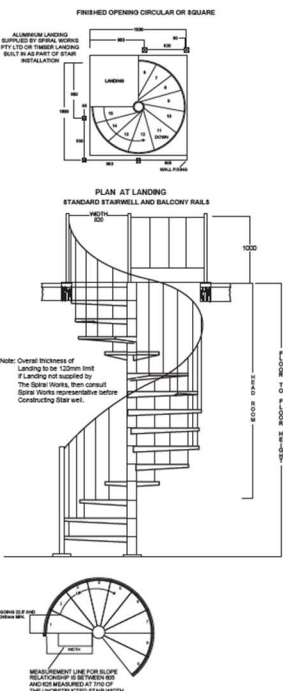


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## ALUMINIUM STAIR

### Construction Specifications & Components

**Centre Column**  
114.3 O.D x 6.35 CHS Grade 6000 - 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 885mm.

**Balcony Railing - Aluminium**  
End posts 50 x 50 x 3mm SHS Grade 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.

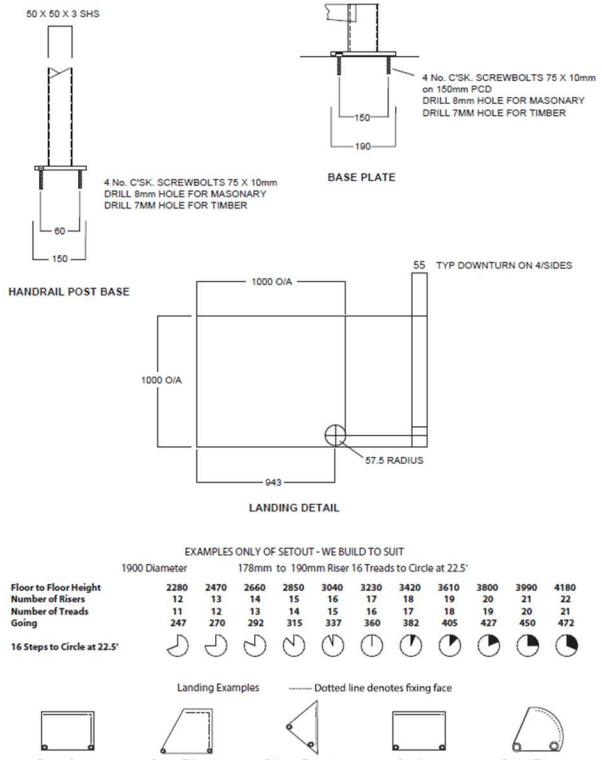
**Stair Geometry**  
Stair has risers between 178 - 190mm 16 steps to circle at 22.5 degrees. The going measured at 710ths of clear width is 224mm minimum. The slope relationship is between 588 & 808mm. Stair can be erected clockwise or anti clockwise and is mechanically joined on site.

**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**  
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