

# enzie

## STANDARD SPECIFICATIONS CONSTRUCTION

The stair is spiral with treads which are made from a composite of 5mm thick Steel and 38mm thick Plywood. Column 101.2, 139.7 or 168.3 mm diameter by is 4.9 mm thick steel. The stair structure is modular and mechanically jointed on site, requiring no site welding. The maximum length of any component is slightly more than one meter, and weight is less than 20 kg. The stair can be designed in a clockwise or an anticlockwise direction. The stair baseplate fits on top of the floor surface before or after floor coverings. The stair requires plastering on site, enzie can arrange this or it can be done by local contractors.

## GEOMETRY OF STAIRS

The stair is made with risers between 178 and 220mm depending on the geometry outlined on the table on pages 2 and 3. The table also shows the going on the walking line (measured at 7/10th of the effective width of the tread). The slope relationship is between 590 to 680.

## TREADS AND RISES

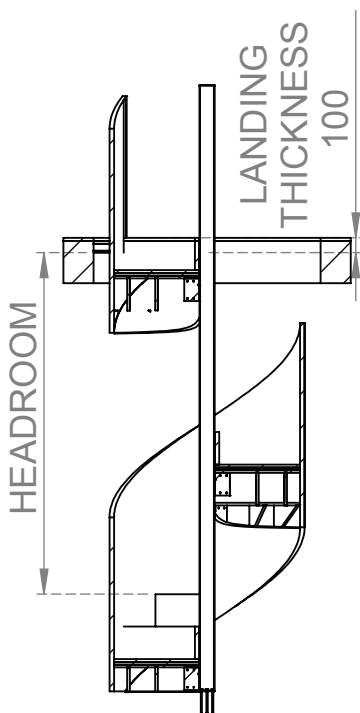
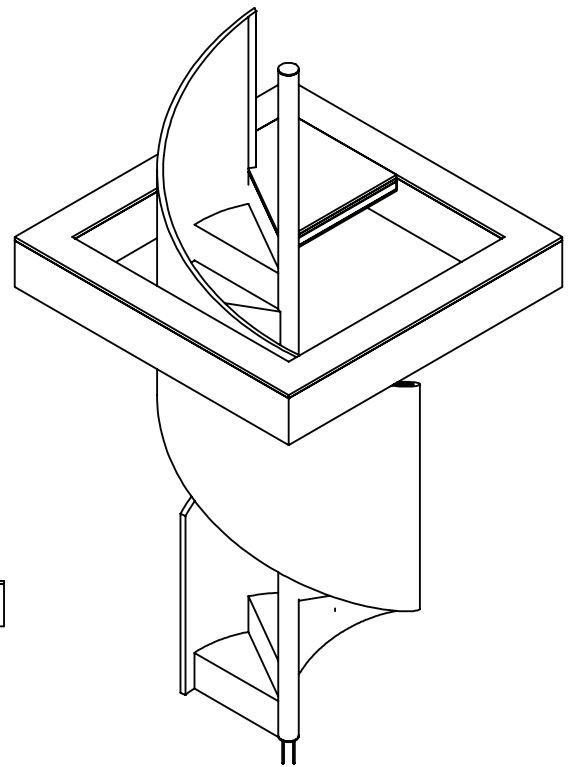
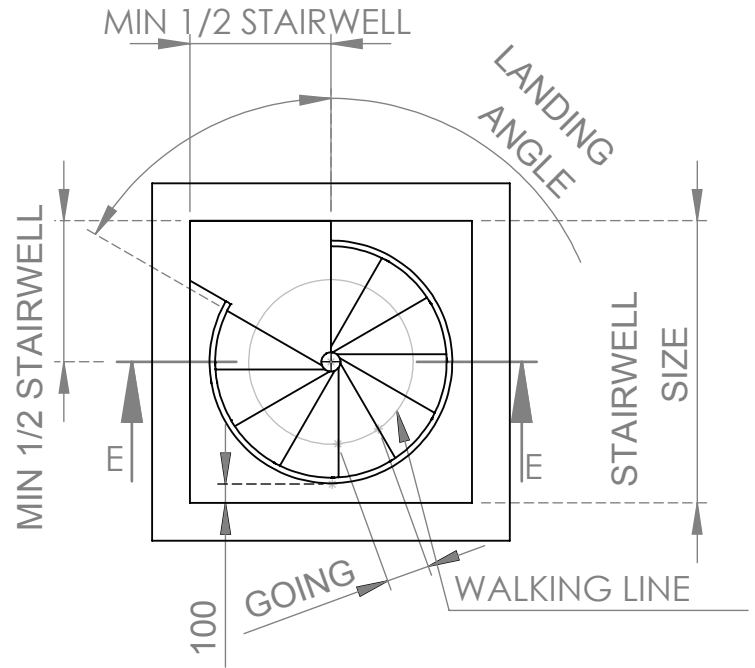
Available tread surfaces include anti-slip powder-coated steel or Timber treads or you can arrange to cover the treads in your own floor covering

## HEAD ROOM

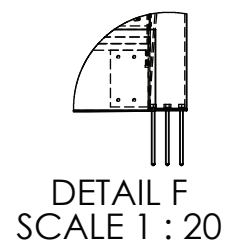
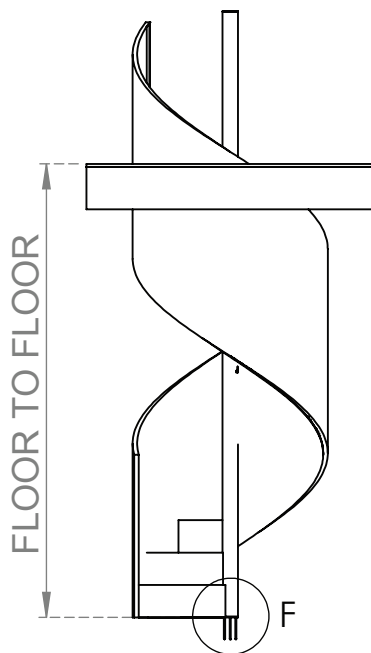
Using supplied landing the minimum clear headroom is 2030 mm. Every 1 mm added to riser adds 12 mm to headroom

## LANDING

Landings can be supplied by enzie with a thickness of 100mm to maximised headroom. The Max angle of the landing is shown on the table on pages 2 and 3.



SECTION E-E



## DATA SHEET enzie HYBRID SERIES 1500-2700

STEPS TO THE CIRCLE	STAIRWELL DIAMETER												
	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700
12	233												
13		233											
14		216	232										
15			217	231	246	260	275	287					
16				217	231	244	258	269	282	296			

Going (in mm), results in Blue require a riser height of 208-220mm, results shaded in green require max 60 deg landing

12 Steps to the Circle, 30 Degrees per tread. Riser Height Between 208 and 220mm. For 1500 - 1700 diameter stairs

Floor to Floor Height(up to)	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
Total Stair Rotation	330	360	390	420	450	480	510	540	570	600	630

13 Steps to the Circle, 30 Degrees per tread. Riser Height Between 208 and 220mm. For 1500-1800 diameter stairs

Floor to Floor Height(up to)	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
Total Stair Rotation	332	360	387	415	443	470	498	526	553	581	608

14 Steps to the Circle, 25.7 Degrees per tread. Riser Height Between 208 and 220mm. For 1800-2000 diameter stairs

Floor to Floor Height(up to)	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
Total Stair Rotation	282	308	334	360	385	411	437	463	488	514	540

15 Steps to the Circle, 24 Degrees per tread. Riser Height Between 178 and 190mm. For 1800 and larger diameter stairs

Floor to Floor Height(up to)	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	11	12	13	14	15	16	17	18	19	20	21
Total Stair Rotation	264	288	312	336	360	384	408	432	456	480	404












16 Steps to the Circle, 22.5 Degrees per tread. Riser Height Between 178 and 190mm. For 1800 and larger diameter stairs

Floor to Floor Height(up to)	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	11	12	13	14	15	16	17	18	19	20	21
Total Stair Rotation	247	270	292	315	337	360	382	405	427	450	472












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	STAIRWELL DIAMETER												
STEPS TO THE CIRCLE	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700
17						230	243	253	266	279	292		
18							229	239	251	264	276	288	300
19								227	238	250	261	273	284
20									226	237	248	259	270
21										226	237	247	257












17 Steps to the Circle, 21.2 Degrees per tread. Riser Height Between 178 and 190mm . For 1800 and larger diameter stairs

Floor to Floor Height(up to)	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	11	12	13	14	15	16	17	18	19	20	21
Total Stair Rotation	233	254	275	296	317	338	360	381	402	423	444
											












18 Steps to the Circle, 20 Degrees per tread. Riser Height Between 178 and 190mm . For 1800 and larger diameter stairs

Floor to Floor Height(up to)	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	11	12	13	14	15	16	17	18	19	20	21
Total Stair Rotation	240	260	280	300	320	340	360	380	400	420	440
											












19 Steps to the Circle, 18.9 Degrees per tread. Riser Height Between 178 and 190mm . For 1800 and larger diameter stairs

Floor to Floor Height(up to)	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	11	12	13	14	15	16	17	18	19	20	21
Total Stair Rotation	208	227	246	265	284	303	322	341	360	379	397
											

20 Steps to the Circle, 18 Degrees per tread. Riser Height Between 178 and 190mm . For 1800 and larger diameter stairs

Floor to Floor Height(up to)	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	11	12	13	14	15	16	17	18	19	20	21
Total Stair Rotation	198	216	234	252	270	288	306	324	342	360	397
											

21 Steps to the Circle, 17.14 Degrees per tread. Riser Height Between 178 and 190mm . For 1800 and larger diameter stairs

Floor to Floor Height(up to)	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	11	12	13	14	15	16	17	18	19	20	21
Total Stair Rotation	180	206	223	240	257	274	291	308	325	342	360
											

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**DATA SHEET enzie HYBRID SERIES 1500-2700**