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STANDARD SPECIFICATIONS

CONSTRUCTION

The stair is spiral with tapered box-section treads which are made from 2 mm and 1.6 mm mild steel. Column is 4.9 mm thick by 101.2 mm diameter mild steel. The handrail is tubular 19 mm OD by 1.6 mm mild steel and balusters are 16 mm OD by 1.6 mm steel. The stair structure is mechanically jointed on site, requiring no site welding or finishing. The maximum length of any component is slightly more than one metre, and weight is less than 15 kg. The stair can be assembled in a clockwise or an anticlockwise direction. The stair base-plate fits on top of the floor surface before or after floor coverings. The pre-finished stair, when erected, is complete; no further finishing is required by others; no unsightly welds, nuts or bolts are showing.

SURFACE TREATMENT

Internal stairs are supplied pre-finished in a high quality baked polyester powder coating. A range of 21 decorator colours is offered for customer selection. The handrail, in addition to finishes above, is available in stainless steel. External stairs are supplied galvanized and primed with zinc rich epoxy before being finished in baked polyester powder-coating.

INSTALLATION

Mechanical jointing and factory pre-finishing of the stair allows installation after all other trades, including floor coverings, have been completed in the stairwell and adjoining area. Installation can be carried out by a local contractor or handyman to installation instructions supplied with stair kit. The stair kit includes all nuts, bolts, installation accessories and an installation instructional DVD.

SAFETY

An Accreditation Certificate issued under B.C.A. endorses the safety elements of the system. The synthetic rubber anti-skid pad, applied to the top of stair treads ensures safe access. Handrail balusters on the staircase are spaced as standard at a maximum of 125 mm, and on the balcony balustrade are spaced at a maximum of 125 mm. Optional extra gate can be supplied for the top or the bottom of the staircase.

DETAILS OF enzie 1880m DIAMETER SPIRAL STAIR GEOMETRY OF STAIRS

Stair is made with risers between 178 and 190 mm 16 steps to circle at 22.5 degrees. The going measured at 7/10 ths. of the clear width is 224 mm and slope relationship is between 586 to 606

TREADS AND RISES

Treads are uniform shape and size. Risers are of uniform height between 178 mm and 190 mm as required by client's application. Anti-skid pad for each tread is supplied. This pad is replaceable if wear should occur.

HEAD ROOM

Using standard 90 degree landing 120 mm thick with 180 mm riser clear headroom is 2030 mm. Every 1 mm added to riser adds 12 mm to headroom.

HANDRAIL

Continuous and uninterrupted handrail is provided on one side and is at a vertical height of 866 mm minimum above the nosing of the tread. Balcony railing is 1000 mm above the floor.

WIDTH

The width of stair free of obstruction is 810mm.

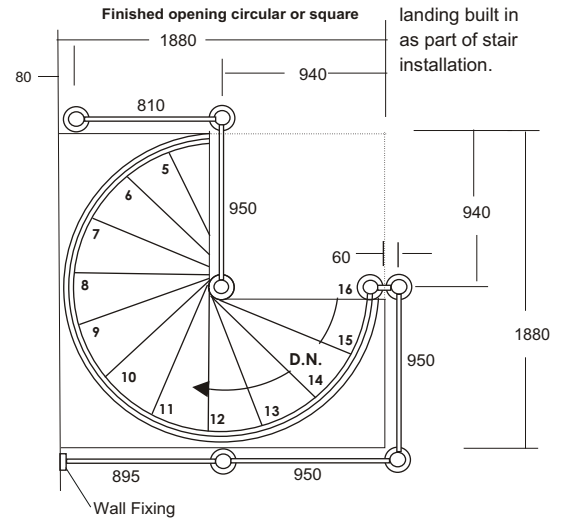
BUILDING APPROVALS

Procedure for building approval is to include a copy of this Data Sheet and Accreditation Certificate for the system with drawings showing location of proposed installation (with your required documentation) to the local building authority for their approval. Computations available on request for submission to Building Authority.

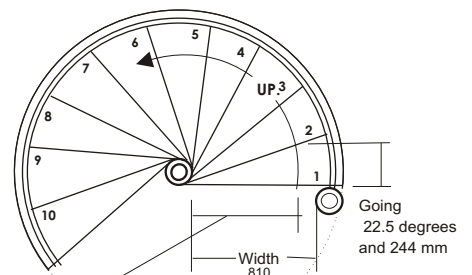
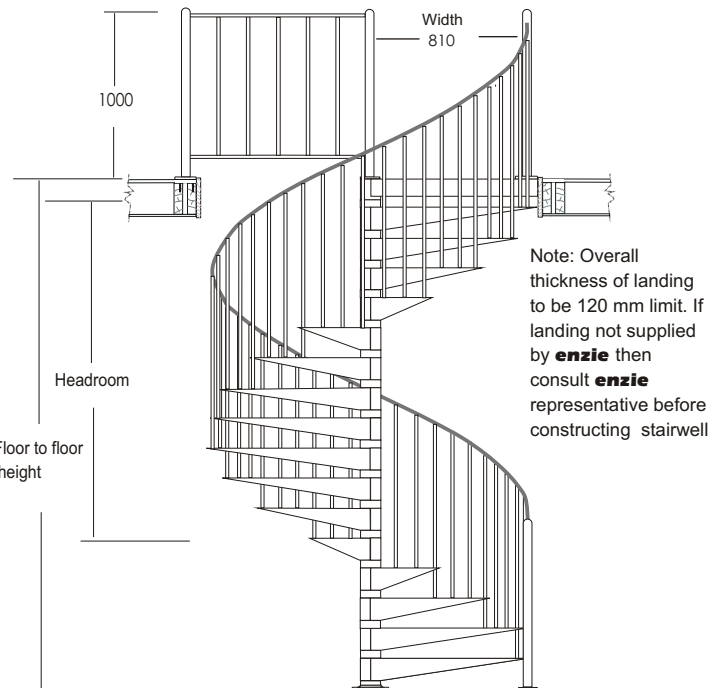
PACKED WEIGHT

Approximately 17 kg per riser.

Steel landing supplied by **enzie** or timber landing built in as part of stair installation.



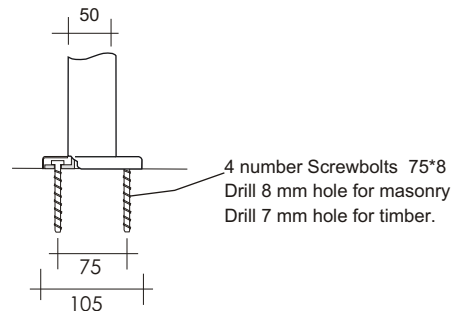
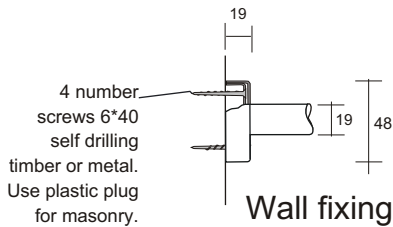
Standard stairwell and Balcony rails



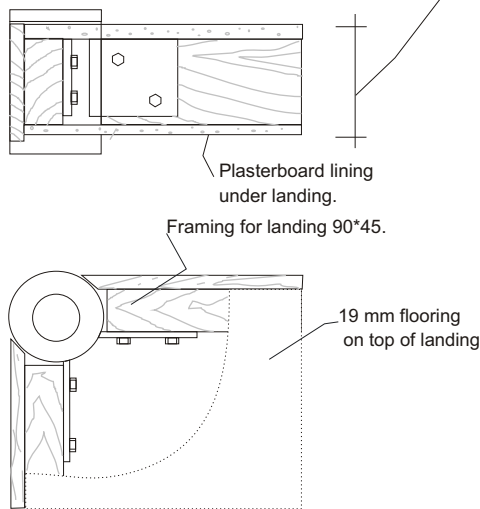
Measurement line for slope relationship is between 604 and 624 measured at 7/10 of the unobstructed stair width



Fixing Detail

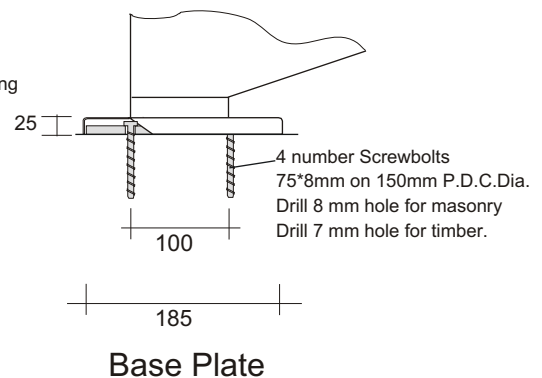


Top fixing TFN 90 type standard.



120 mm overall landing thickness. If riser height is less than 180 then this dimension has to be reduced accordingly to maintain headroom 2030 mm. Example with 178 mm. riser it is necessary to reduce landing thickness to maximum of 100 mm. In these cases we recommend the use of an enzie pre-fab landing

Handrail post base



Setting out examples

1880 Diameter 178 mm to 190 mm Riser 16 Treads to circle at 22.5 Degrees

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	11	12	13	14	15	16	17	18	19	20	21
Going	247	270	292	315	337	360	382	405	427	450	472
16 Treads to circle at 22.5 Degrees											

Some typical top landing examples

