



## Sibe-Scale Timber Spiral Stairs

### CAUTION

Spiral stairs are considered to be space saving, however, if replacing a straight stair structural work will be necessary to change the shape of the opening.

### CONSTRUCTION

Support is by means of a steel column around which the components are positioned. The stair is stabilised by bolting down the column base and by fixing the landing to the upper floor. Tread connectors are standard on most circular models from 1.2m diameter and on all square plan stairs.

### BUILDING REGULATIONS

We can give guidance, but it is the responsibility of the customer or architect to obtain any necessary approvals. Interpretation varies considerably and advice should be sought from the relevant Building Control Office. In accordance with Part K1 of the regulations (Part S in Scotland), the Alternative Approach, BS5395:Part 2 is applicable. Technical sheets are available on request. It is not possible to attach an inner handrail to the centre column.

### OPENING

A circular opening is determined by the stair diameter, usually 50-100mm larger for clearance. In square/rectangular situations, lower treads can sometimes under hang the ceiling.

### WEIGHT

As a guide allow 40kgs per metre of stair for 1m diameter, 60kgs for 1.5m, 100kgs for 2m and 160kgs for 2.4m. Model Stencil should not be installed on an upper floor.

### FABRICATION

Most models are made in 2mm pressed steel up to diameter 1.6m, 3mm bent plate is used from 1.7m to 2m and 4mm from 2.1m to 2.4m. The gauge can be increased on larger stairs for a surcharge. The diameter of the central column on small stairs is 102mm and on larger diameters 168mm.

### FINISHES

A factory paint finish is included in the price in a choice of colours. Any RAL shade is available for a 10% surcharge. External stairs have a rust proof coat for site finish or hot galvanizing is an option for a 30% surcharge. Standard colours are:-

white RAL 9010	ivory RAL 1015
red RAL 3000	black RAL 9005
grey RAL 7001	charcoal RAL 7016
blue RAL 5010	yellow RAL 1021

brown RAL 8011

silver RAL 9006

grey graphite

black graphite

## EXTERNAL STAIRS

On small diameters the treads have a raised rib pattern, on larger stairs the pattern is diamond shaped.

## ROTATION

The start and finish of the stair is determined by the number of risers calculated from the floor to floor height. A clockwise or anti clockwise ascent depends on the position of walls and doors etc. Straight treads can be incorporated at the bottom or top of the stair, for example to maintain headroom under a roof slope.

## TREAD LAYOUT

Standard angles are given below, alternatives can be used for a surcharge. Note on diameters up to 1.5m a smaller angle is achieved by increasing the tread overlap.

### Circular stairs

1m to 1.5m	30° (12 treads per 360° revolution)
1.6m and 1.7m	22.5° to 30° (12 to 16 treads per 360° revolution)
1.8m and 1.9m	22.5° to 25.7° (14 to 16 treads per 360° revolution)
2m to 2.4m	22.5° (16 treads per 360° revolution)

### Square stairs

1m to 1.9m	30°
2m to 2.4m	22.5°

## LANDINGS

This is an integral part of the stair and is designed to fit within the opening. A 60° quadrant landing is included in the basic price, a surcharge applies for all other types. Note a quarter landing is not compatible with a 30° tread due to lack of headroom beneath.

## INSTALLATION

General assembly instructions are provided, together with a working drawing or sketches as appropriate. The stair is a finished product and should be installed as late as possible in the contract taking care to protect from damage.

## DELIVERY

Manufacturing time is approximately 6 working weeks for circular stairs up to 1600mm with a PVC handrail and up to 9 working weeks for all others. Allow up to a week for shipping. Please note that timber and metal handrails are despatched in one piece and consideration should be given to any access restrictions.

#### DIAMETERS AVAILABLE

All start at 1m, 1050mm, 1.2m then increase every 100mm to 1.6m, some models continuing to 2.4m.

#### TREAD FINISHES

Carpet (beige, grey, green, rust, blue, black or brown), black rubber, beech, iroko or oak in choices of stain.