easy step by step

## It is recommended that you check

 with your local Planning office before starting any project as to whether you require planning permission
## STEP 1

1 Preparation and Groundwork Check there are no drainage problems in the area where The deck design must maximis airflow through and around the construction to ensure good ventilation.
Carefully mark out the site with builders lines and ensure that it is square. To help create a square deck and determine its overall size, mark o
proposed area using
batterboards, pegs and string line.The easiest way to obtain
right angle is to make a $3^{\prime} 4^{\prime}$ $5^{\prime}$ triangle giving a $90^{\circ}$ angle at the corner. Simply mark a piece of string at $3^{\prime}, 4^{\prime}$ and $5^{\prime}$ ' unit' intervals with a felt tipped pen. The units can either be in feet or metres.


2 Prepare the site
Do not lay the deck directly onto grass.
Remove all turf. Cover the ground with permeable then gravel to prevent weeds from growing. If polythene is used, pierce a series of holes in it to allow drainage of any surface water. If attached to a house, the finished deck must be at least 2 brick courses below the damp course level. If this is not left between the house and the deck to aid drainage.


At least half the length of the post should be sunk into the ground and fixed either with
concrete or with concrete feet concrete or with
and dry cement.
Use a joist and spirit level to mark the ledger height at the wall.
Joists are attached to the ledger or double beam with galvanised joist hangers. Joists should be spaced at 400 mm centres. Place a scrap piece of joist to set the width of the jois hanger.
Nail or screw the joist hanger on the inside of each double beam every 400 mm . Place the joist inside the hanger, and nail or screw through the hanger into the joist. Noggins are used to keep the joists from twisting or buckling noggins to fit snugly be the joists. Attach these in a staggered manner as shown below at 1200 mm centres.


STEP 2
Fitting Balustrading
Points to Rememb

- Timeless Timber balustrading should be assembled and fixe to joists before installing deck boards.
Balustrading can finish of ground level decks and must safety.
The maximum recommended length of rails between posts is 2400 mm .
Additional newel posts must be
used for longer railing. The space between spindles

1 Fixing Colonial Rails The colonial system uses three rails, a handrail, a concealing
handrail (for the top of the structure) and a base rail for the bottom of the structure. It is easier to assemble the spindles to the handrails befor fixing the completed unit between the newel posts. The recommended height for the concealing rail from
deck surface is 900 mm The bottom rail should be 75 mm from the deck surface. Decide where you want the top handrail to be in relation to the newel post. Draw around the handrail profile onto the face of the newel, once for the handrail and once for the


Drill the end section of the Driil the end section of
handrail using an 8 mm diameter wood bit, to a depth of 60 mm at a distance of 10 mm up from the groove in the rail.
Turn the rail over and drill a 35 mm diameter hole to a depth of 18 mm in the groove, 60 mm in from the end of the hinge drillforstner bit or hinge drillforstner bit or simiar and it creates an access
hole for fitting the balustrading holt. If you chisel a rebate in the smallest groove of this rail it can make drilling easier.


On the face of marked newel post, measure up from the groove of the lower pencil drawn handra

Drill the newel post at this drill bit to a 9.5 mm diameter Screw the threaded insert of the balustrading bolt into the newel post using a 6 mm allen key.
Mark and drill the remaining newel posts in exactly the same way and fix inserts into position. Measure a distance of 900 mm down the face of the newel, and draw a line, which will represent the finished deck board level.
From this line, measure up 75 mm and draw the profile of the rail to be level with the line at 75 mm above the deck board. When using colonial rails as a base rail - ensure that the grooved side of the $r$ facing downwards.
Mark and drill all newel poss
and rails as previously described.
Screw the threaded bolts into the inserts in the newel posts and position rails onto threaded bolts.
Tighten all rails to newel posts with the combined press plate and nuts of the
balustrading bolt.
Ensure that all access holes are treated with End Seal.

Fixing Newel Posts Fix spindles to rails using 40 mm galvanised screws, screwing down (top) and up (base). Spindles should be spaced at approximately 120 mm centres hould be no more than 99 Offer up the whole than 99 mm . including the posts and mak sure that the base rail is approximately 75 mm above the deck level.
To hide the screws on the top rail, place an additional rail on top and fix by screwing through the underside of the
lower rail using a 40 mm galvanised screw.


Fixing American Rails The American system uses two one for the baserail. Decide where you top handrail to be in relation to the newel post. Draw around the handrail profile onto the face of the newel.
The American rail is drilled in the centre of the rail using an 60 mm and a 35 mm access hole is drilled on the side face of the rail.
Drill the other end of the handrail in exactly the same way On the face of the previous marked newel post, measure up 60 mm from the bottom line of the pencil dra handrail section
point using a 5 at this drill bit to a depth of 25 mm . Screw the threaded insert of the balustrading bolt into the newel post using a 6 mm allen key.
Mark and drill the remaining newel posts in exactly the sam way and fix inserts into
position
Measure 900 mm down the face of the newel from the top
of the handrail and draw a line. This will represent the finished deck board level.


Measure 75 mm above the deck board from this line. Mark and drill all newel posts and rails as previously described.
Screw the threaded bolts into the inserts in the newel posts threaded bolts.
Tighten all rails to newel posts with the combined pressure plate and nuts of the balustrading bolt.
Use a Timeless Timber Cover cap to hide the access hole. Ensure that all access holes ar treated with End Seal


4 Fixing American Spindles
Fixing American Spindles
American Spindles can be cut square, or left at an angle. If you cut them, ensure that the exposed surface is treated with End Seal.
Space the spindles at 125 mm centres. Drill, countersink and fix to the using 40 mm galvanised screws.

Fixing Newel Posts These are fixed to joists using Timeless Timber" 100 mm landscape screws.
If possible, fix newels so that two faces can be secured through two iosts $90^{\circ}$


STEP 3
Fixing Deck Boards
drilled befo should be pre avoid splitting.
Boards should be spaced leaving a minimum of 6 mm . 9 mm to ensure that there is adequate ventilation and to allow the boards to naturally swell when wet and shrink when dry.
Deck boards should be fixed at right angles to the joists. the joists at the end or can be trimmed flush with the joists. A fascia board can be added for a more decorative neat finish All cut ends, notches and drill holes must be brushed with an End Coat preservative to maintain the integrity of the pressure treatment and to reseal

STEP 4
Fitting Steps
The stair strings should be positioned at right angles to the deck
need to be cut at an angle need to be cut at an angle
to allow it to sit firmly on the ground, preferably on a solid area. The strings should be set at a maximum distance 400 mm centres.
Fix these using galvanised brackets or joist hangers. fixed through the top face of the deck board using 63 mm screws.
Treads are made by cutting deck boards to length. Allow 30 mm to overhang each string. Any cut ends should be treated with End Seal.


Timeless Timber's ${ }^{\circledR}$

## "Building a Deck" video

gives you easy to follow,
step by step instructions

## on how to build a deck.

Contact your local stockist
for a copy.

