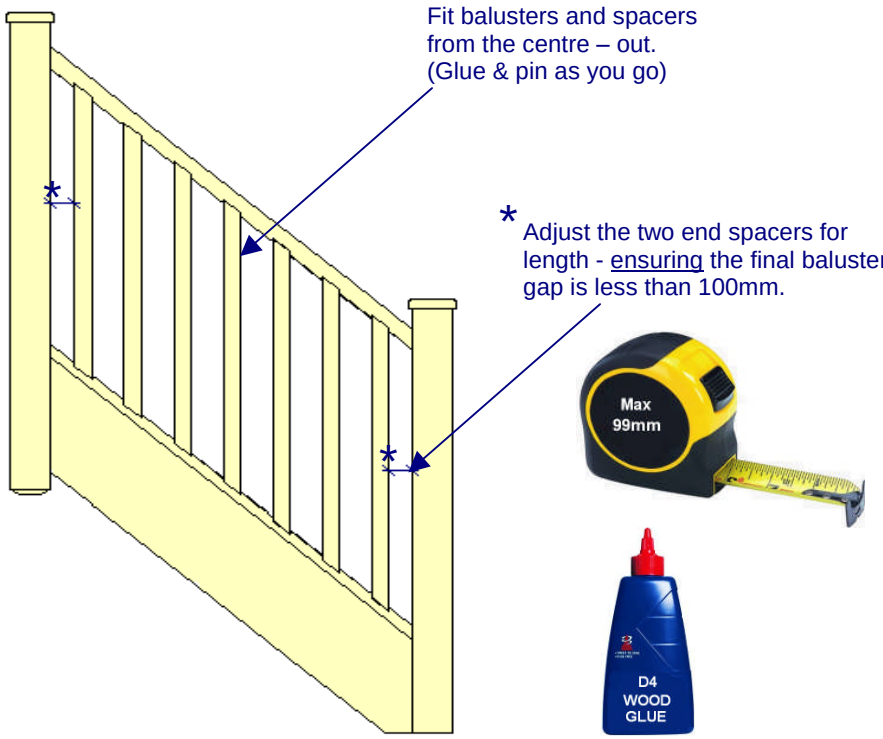
- **Balusters and spacing.**

**Subject to handrail length "and working from the centre-out" start with either a baluster or infill in the centre of your handrail gluing & pining all balusters and infill as you go. Adjust only the two end spacers for length - ensuring the final baluster gap is no less than 100mm.**




**DO NOT use "Hammer-on" carpet gripper** **Hammer and nail fixing will break the bond between the tread and riser, resulting in a noisy and deflecting stair tread.**

**Recommended "Gripper" Fixings**

Liquid nails, specialist adhesive or light gauge wood screws. (Gripper can be held in place while the adhesive cures with a "narrow gage i.e. low-impact nail / pin gun")

**Note:** Although most Developers and Joinery Contractors have their own fitting guidelines, Timber Stair Manufacturers Ltd would always recommend that BS585 be adopted as the minimum standard required

Timber Stair Manufacturers Ltd, Saxilby Road, Lincoln, LN6 5TZ.
t. 01522 703100. f. 01522 703010. e. info@tsm-stairs.co.uk. www.tsmstairs.co.uk

# Product information

(PI0022013)

TSM
Timber Stair Manufacturers Ltd

## 1. Handling


- **THIS PRODUCT IS HEAVY**
- **Off – Load and distribute by mechanical means.**
- **Manual Lifting: Please consult your company's health and safety recommendations.**

## 2. Storage

**THIS STAIRCASE IS AN INTERNAL JOINERY PRODUCT so to prevent damage from moisture ingress it should be stored in a dry place, raised from the ground and protected from all weather conditions, including extremes in temperature. (Please Note: White primer is NOT protective)** Failure to respect the storage recommendations will seriously compromise the finished quality and fit.

## 3. Fitting / Assembly

**Staircases are NOT Self-Levelling - and must be confirmed as being level and plumb before final fixing.**

- **Wherever possible staircases should always be installed "from the top down".** See fig 2.
- **When a staircase is to be partially or fully assembled on the floor NO element should be permanently fixed until the staircase has been lifted into position and confirmed as being level and plumb.** (Above all be patient, although most newels posts and loose treads have been dry-fitted, slight building discrepancies and levels dictate that adjustment may well be necessary during the installation process)

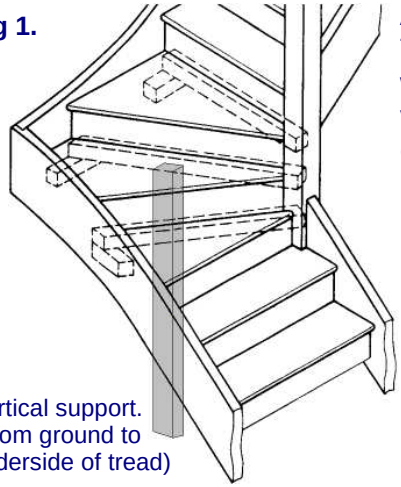
- **Newel Posts.**
  **All newel posts that are attached to the staircase have been pre-drilled for a 10mm dowel fixing** (dowel supplied). **We recommend that the string tenon be "draw-bored" to ensure a quality fit. Prior to fixing ALL relevant surfaces should be adequately glued with a D4 joinery grade adhesive.** See Fig 3 & 4

Cont….

Timber Stair Manufacturers Ltd, Saxilby Road, Lincoln, LN6 5TZ.
t. 01522 703100. f. 01522 703010. e. info@tsm-stairs.co.uk. www.tsmstairs.co.uk

- **Tread, Winder Tread & Risers.**
  **All "loose supplied" tread, riser and winder tread should be adequately glued, wedged, screwed, blocked and supported in their final position** (blocks & wedges supplied).
  **Blocks should be fitted on MAX 250mm centres.**
  **Screws should be fitted on MAX 200mm centres** (Pre-drill for all screw fixings)
  *(see figure 1 for BS585 winder tread support recommendations)*.
  **Compromise in this area will only lead to post hand-over deflection issues.**

**Fig 1.**



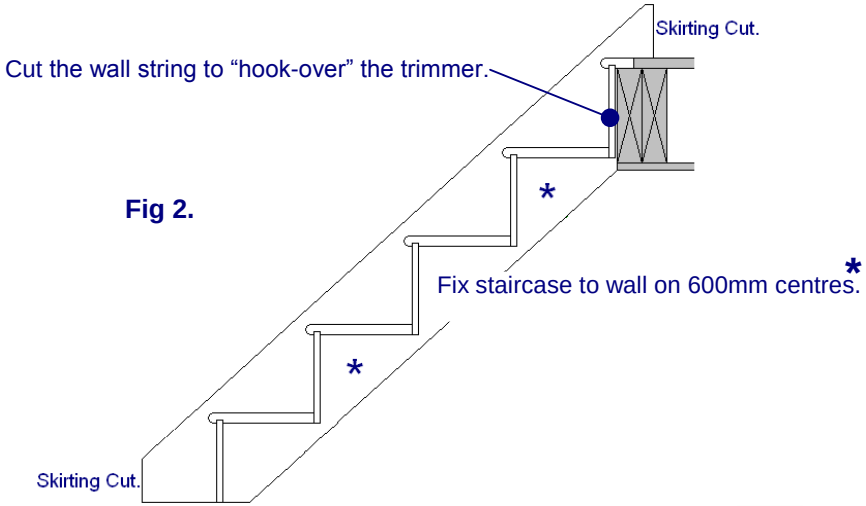
Vertical support.
(From ground to underside of tread)

Additional "on-site" Winder Tread Support should be added wherever possible. Additional vertical support below the back edge of each winder tread will help ensure a quality installation is achieved. (see Fig 1.)

Please observe all glue drying times before traffic is allowed up & down the staircase.

- **The staircase should be securely fixed to the main building structure on 600mm centres *** (see Fig 2.)

**Fig 2.**




Cont…

- **Handrail & Balustrade.**
  **All jointed surfaces should be adequately glued with a D4 joinery grade adhesive.**
  **Incl. Handrail plough, Baserail plough, Baluster-ends & Spacers.**

**Fig 3.**

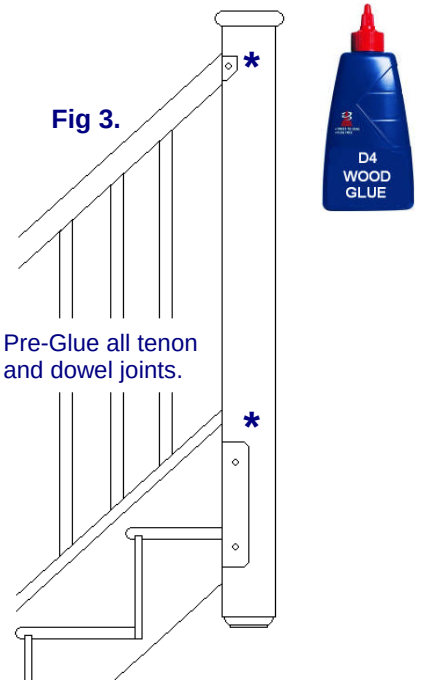



**Fig 4.**

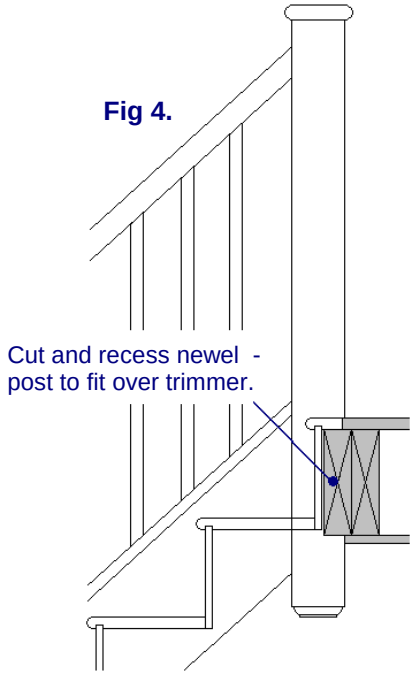



**Fig 5.**

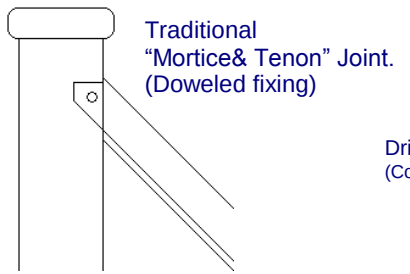
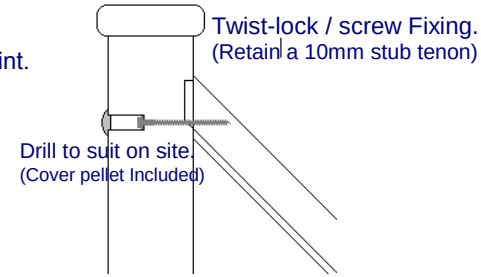



**Fig 6.**




Cont…

Timber Stair Manufacturers Ltd, Saxilby Road, Lincoln, LN6 5TZ.
t. 01522 703100. f. 01522 703010. e. info@tsm-stairs.co.uk. www.tsmstairs.co.uk