

# Handrail Stair Flight Kits

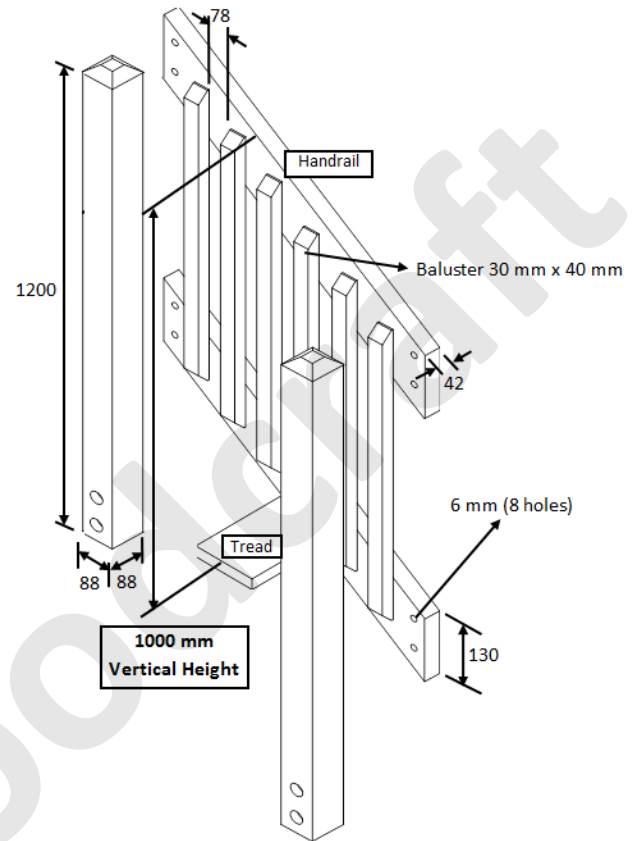
## COMPONENTS INCLUDED

- 1 Pre-assembled Handrail Balustrade Flight Panel. Balustrade must be 1000 mm vertical high from the top of the handrail to the front edge of treads when installed to meet **Australian Standards** (See diagram to the right)
- 2 Posts 88 mm x 88 mm x 1200 mm with hexagonal MDF packer
- 8 Galvanized 5 mm hex head drive screws 14g x 100 mm
- 4 Galvanized 12 mm x 130 mm coach Bolts with nuts and washers

## STAIR CARE

We highly recommend on all surfaces for maximum service life:

- Paint the product on the SIX SIDES including end grain and housing joints
  - When painting, use Oil Based Primer
  - When staining, use Semi-Translucent Oil Based Stain
  - Refer to Painting Instructions on PAGE 5 on the brochure
- Brochure can be found on our website [www.karemwoodcraft.com.au](http://www.karemwoodcraft.com.au)

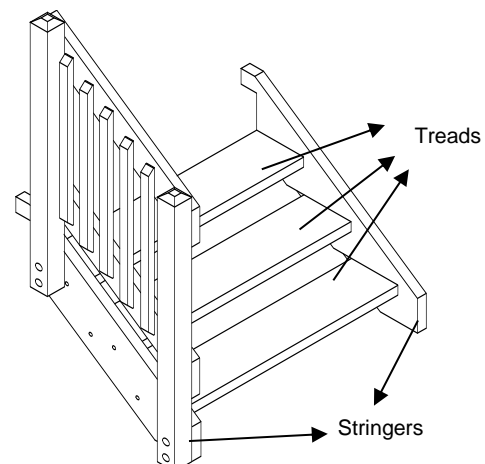
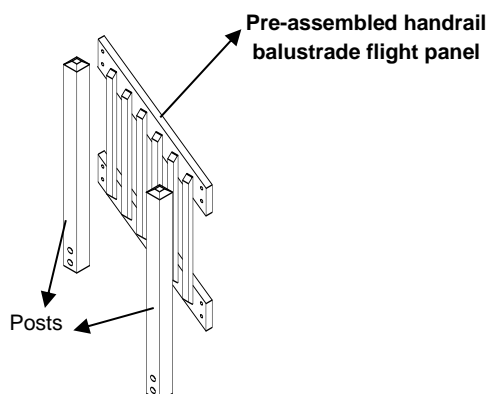


We highly recommend to:

- Use stirrups to elevate bottom post off the ground by 20 mm.
- The assistance of a qualified tradesperson to perform the installation in some cases. Stairs must be fixed to building securely.

## DEFINITIONS

- **PRE-ASSEMBLED HANDRAIL BALUSTRADE FLIGHT PANEL:** The main handrail panel
- **HEXAGONAL MDF PACKER:** Attached MDF hexagonal piece attached to post to rest to stringer (For installation only).
- **POST:** The upright timber that attaches to the Stair Stringer and Handrail Flight Panel.
- **STRINGERS:** The sides of the stairs.
- **TREADS:** The steps of the stairs.



## TOOLS NEEDED TO PERFORM ASSEMBLY:

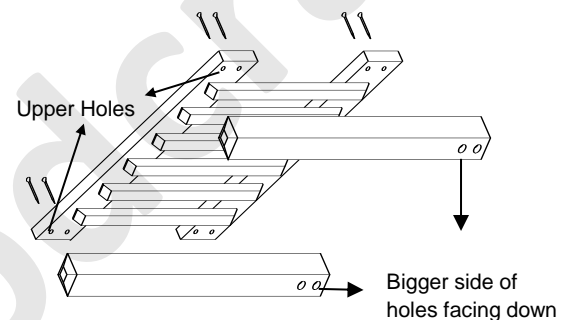
- 12.5 mm or ½ inch Standard length Drill bit
- 5 mm Hex head bit
- 3 mm drill bit for pre-drilling for hard timbers only (E.g. Merbau)
- Two G-Clamps (Or One person to assist)
- 18 mm socket bit

## STEPS:

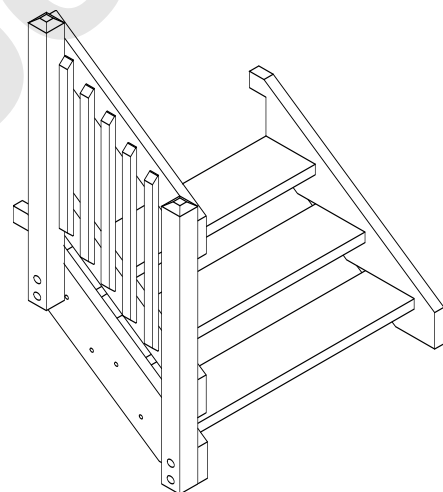
### Assembling Handrail Flight:

1. Place the posts on the ground with the surface with the removable hexagonal MDF packer facing upwards.  
**Note.** Do not remove packer until handrail flight is attached to the stair.
2. Lay the Pre-assembled panel on top of the posts. (See **Diagram 1**)
3. Insert screws provided through the four upper holes of the panel aligning the tip of screws with the two 6 mm locating holes near the top of each post.
4. Using a drill with the 5 mm Hex head bit; tighten the four screws to secure panel to posts.
5. Once the screws in the top are tightened, insert screws into the four lower holes of the panel and tighten securely.

**Diagram 1**



**Diagram 2**



### Attaching Handrail Flight to stair:

6. Place Handrail Flight assembly on top of the stringer by resting the two hexagonal MDF packers on top of the stair stringer. (See **Diagram 2**)
7. Hold together the post and stringer placing a G-clamp on the bottom of each post. A second person can be used to hold.
8. Place the 12 mm drill bit into each of the 4 pre-drilled holes in the bottom of the posts and drill all the way through the stringer.
9. Place the four coach bolts into the holes previously drilled from the inside of the stringer and tighten the nuts on the outside of the post using the 18 mm socket bit. Do this in the two lower holes of each post (See **Diagram 3**).
10. Remove hexagonal MDF packers by using a large flat screw driver and push/hit them away from post.

**Diagram 3**

