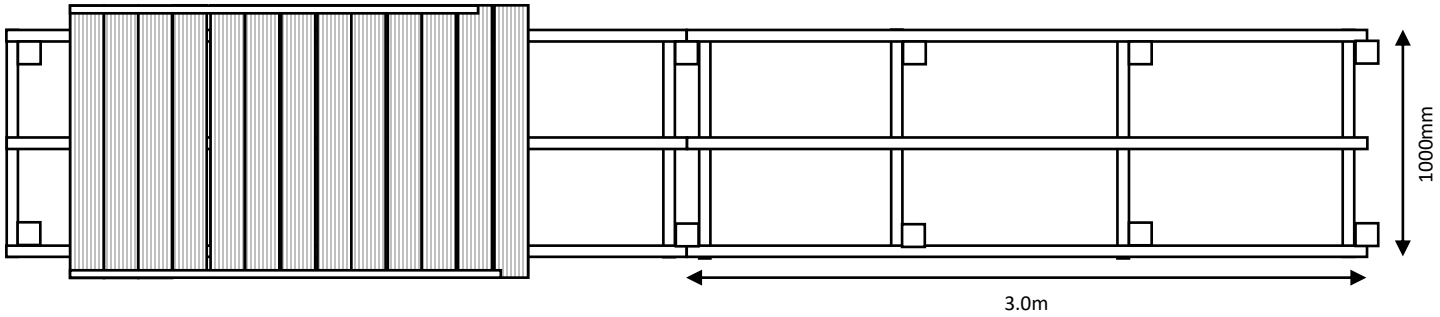
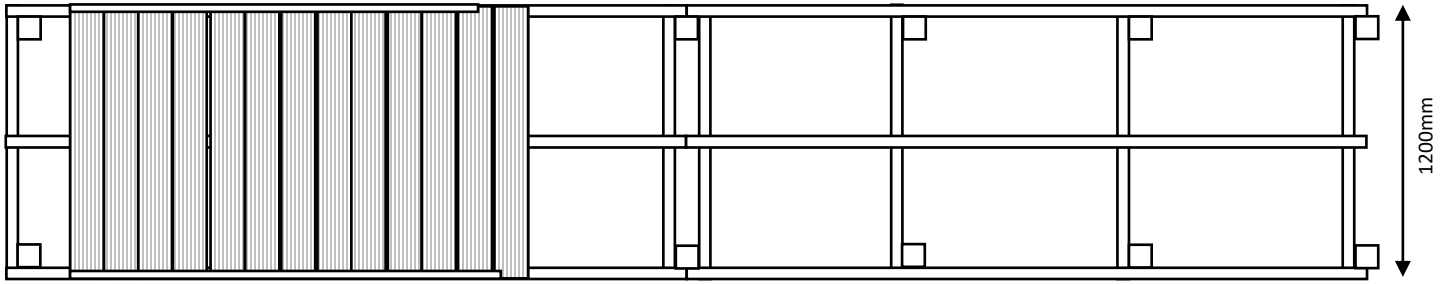
Boardwalk Design

1.0m bearer option



1.2m bearer option



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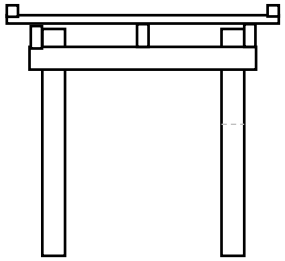
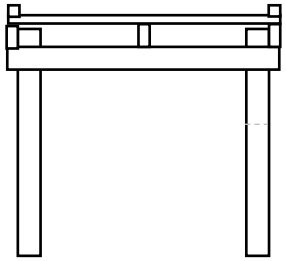
Boardwalk Design

Recycled plastic deck option

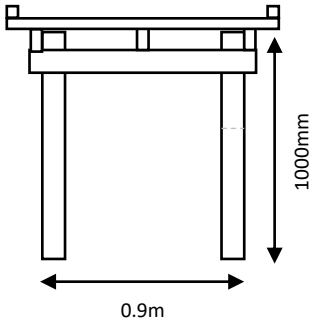


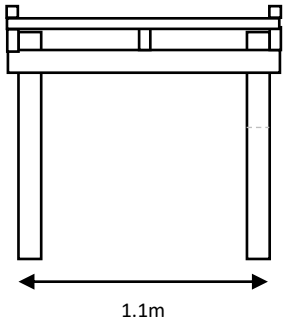


Components

0.75/1.0m x 100 x 100mm recycled plastic posts
1.0/1.2m x 100 x 50mm recycled plastic bearers
3.0m x 100 x 50mm recycled plastic joists
1.0/1.2m x 150 x 38mm recycled plastic deck boards grooved
3.0m x 50 x 50mm recycled plastic edging rails
M10 x 170/220mm coach bolts, nuts, washers galvanised
150mm hex structural screws, 6.0 x 80mm torx structural screws

Timber deck option





Components

0.75/1.0m x 100 x 100mm recycled plastic posts
1.0/1.2m x 100 x 50mm recycled plastic bearers
3.0m x 100 x 50mm recycled plastic joists
1.0/1.2m x 145 x 45mm redwood deck boards anti-slip
3.0m ex 50 x 50mm douglas fir edging rails
M10 x 170/220mm coach bolts, nuts, washers galvanised
150mm hex structural screws, 6.0 x 80mm torx structural screws

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Installation Guide

Lay the 3m x 100 x 50mm joists out along the length of the boardwalk in a single line, end to end.

Install posts to the required depth (usually 500-600mm depending upon post length and height of deck above ground), where the joist ends meet. Ideally posts should be knocked into the ground if conditions allow, with the surrounding area rammed firm after.

Repeat for the opposite side of the boardwalk at either 0.9m or 1.1m from outside of posts, depending upon the bearer length.

Install 2 posts between these initial posts at approx. 1.0m centres. Repeat for the opposite side and along the entire length of the boardwalk ensuring the posts are vertical and level with each other as far as is practically possible.

Next clamp a bearer each side of the posts across the boardwalk where the joist ends meet to connect with the post on the opposite side. The bearer can be set down from the top of the post by up to 90mm. Once positioned and level, drill through the bearers and post, and bolt together using the M10 x 220mm bolts. It is normal to use 2 bolts at this point.

For all other posts, fix a single bearer in the same method as for the double bearers but using the M10 x 170mm bolts. Again, it is normal to use 2 bolts at each fixing point.

Lay all the joists onto the bearers with the 50mm face down, joists need to be positioned on the inside of the posts if they are raised above the bearers or in line with the ends of the bearers. Lay the third joist down the middle of the boardwalk centrally between the outer joists. Screw the joists to the bearers using the 150mm hex head screws, it may be easier to pilot drill first. Use 1 screw per fixing point (4 screws per joist).

Starting from one end, fix the deck boards down to the joists using the 70mm/80mm screws, 2 screws per fixing point (6 screws per deck board). It is beneficial to pilot drill each fixing point prior to screwing. A gap of 5mm to 10mm between deck boards is recommended to help keep the surface clean. Some locations may also benefit from a weed barrier membrane between the joists and deck boards, this can be put down prior to laying the deck boards out.

Finish the boardwalk with the 3.0m x 50 x 50mm edging rails. Ensure the outside edge of the edging rail is flush with the deck board ends and screw down through the edging rail using 80mm screws, 1 screw per deck board (21 screws per 3m edging rail). Again, pilot each fixing point before screwing.

Where a handrail is being fitted, the edging rail is normally omitted. The posts will be longer and also positioned outside of the deck boards. To fix the handrail use the same method as the bearers, clamp into position, drill through the handrail and post, then bolt together using a M10 x 170mm bolt – 1 bolt per fixing point (4 bolts per handrail), there will be 2 bolts through every post where the handrail ends meet.