Interclamp® The right connection

DDA Assist Installation Guide

In order to ensure the structural integrity of your installation and to provide the best finish for your clients, a few guidelines are offered to ensure your installation is carried out as easily and smoothly as possible. Please note that our products are sold worldwide, so it is essential to familiarise yourself with any local regulations which may be applicable.

1. Plan the Construction

This will help with the calculation of fittings and tube required. Assist fittings are only compatible with tube rails 42.4mm od x 3.2mm wall thickness, eg. 1 1/4” nominal bore Medium Weight to BS EN 10255 (formerly BS1387). The specification and maximum separation of tube posts is dependent on any applicable design loads and posts should always be spaced evenly for aesthetic reasons wherever possible.

Position a post on either side of corners at a maximum of 300mm from the corner. The height of handrails may be governed by local regulations. Choose the most suitable base fixing for the site, noting that Interclamp base fittings allow more flexibility during installation (and are hence used as the basis of the following guidelines).

We recommend the use of 797-C42 rubber rings to help with easier installation of the fittings prior to expansion and also to help make a smoother fit between fitting & tube. Please note that all cut tube ends must be deburred, cleaned where necessary and treated with a suitable zinc-rich protection.

2. Before Starting

On receipt of material, ensure that you have all goods required for the planned job.

On arrival on site, double check that sufficient and suitable tube and fittings are available to complete the structure.

3. Prepare Uprights

Pre-assembly of uprights is recommended for ease of installation, although it is essential that allowance is made in post length for any variations in terrain. Failure to do so will produce a poor uneven finish.

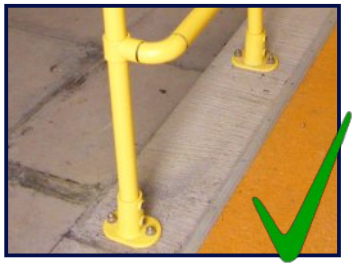
Please note that once erected, only small adjustments can be made to accommodate variations in installed upright heights and the mid-rail clamp can be adjusted accordingly to ensure rails run without unsightly bends or kinks.

4. Upright Positioning

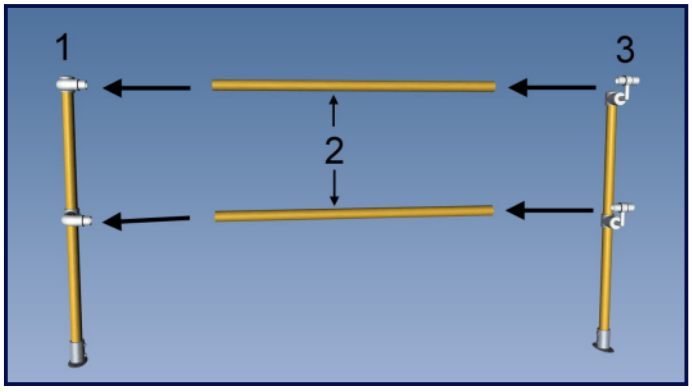
Mark out positions of uprights to ensure that even post separation is obtained without exceeding any maximum post separation criteria. It is essential that in general on straight runs, uprights are inline with each other to ensure the handrail and mid-rail run in a perfectly straight line.

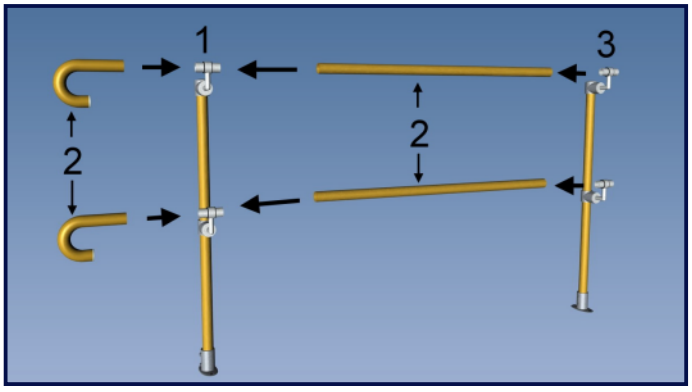
5. Base Alignment

To achieve optimum load characteristics, this fitting should be fitted so that the fixing holes are in line with the applied load.



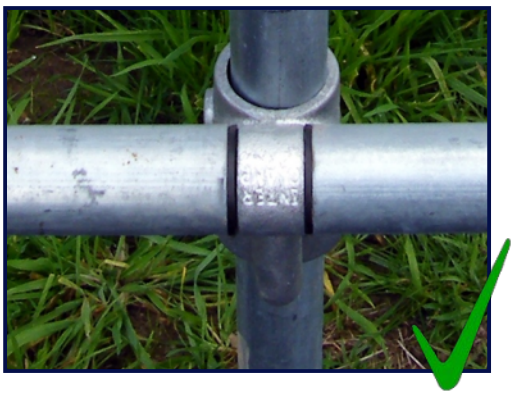
6. Assembly





Starting from any fixed structure, eg. wall to which rails are attached, position the first upright and assemble the first section of top and mid-rails into place, ensuring a snug fit into the fittings at each end. Tighten setscrews and fix the first upright securely. During installation, support by hand any rails temporarily fixed only at one end. Remember that all cut tube ends must be deburred, cleaned where necessary and treated with a suitable zinc-rich protection. On some installations bending of the tube may be required to follow any deviations to the straight line of the handrail or where a ramp or stairway meets a level section.

Repeat with the rest of the installation. Please note it will be necessary to loosen already installed Assist fitting setscrews slightly to allow the next section of rails to be fitted.



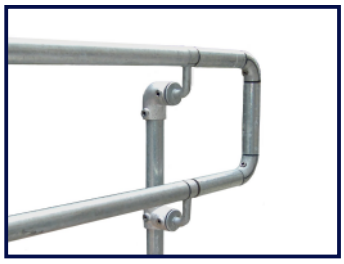
7. Final Checks

Check all setscrews and any other fixings for tightness.
As a final check, ensure no sharp corners remain on cut tube rails.

Handrail Terminations

There are several different options available when using Interclamp Assist to terminate the handrail. Each one will be dependant upon what your client dictates and where the end of the handrail is.






Assist Assemblies

The following illustrations show typical combinations of Interclamp Assist fittings. Type 133-C42 may substitute type 333-C42 if required. In some cases, size of type 101 may be modified to suit D48 size post. The assemblies illustrated may require more than one of each Assist fitting. Bolts and nuts for type 750-C42 are sold separately.

Top Rails

Terminations

For more information visit www.interclamp.com