

## Basic Construction Information

When you create a design with the PipeJointSystem, there are multiple important factors to take into account.

On this page you will find the basic information.

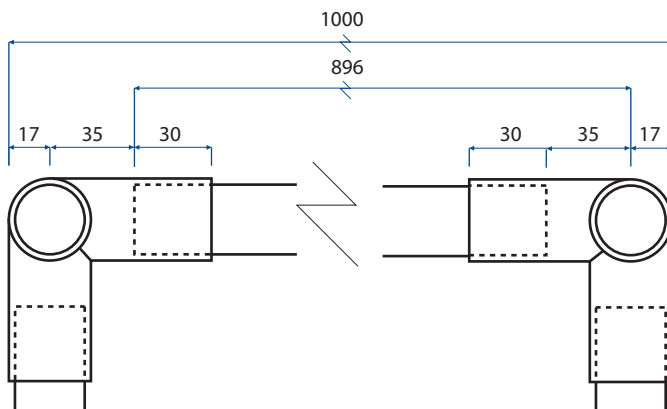
Please note that these values are an indication.

### Sizes

When cutting a pipe, you need to consider the sizes of the joints that you are planning to use. The sizes that matter are the same for all (standard) joints.

The picture on the right shows that 30 millimeters of a pipe will disappear inside the joint. 35 mm from the end of the pipe, is the centerpoint of a possible rectangular pipe.

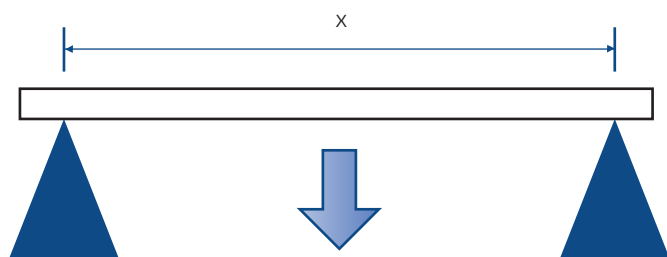
For instance, if you need a total size of 1000 mm, the length of the pipe should be 896 mm. The design is dimensioned based on the centre of the pipe.



### Length and strength

If you want to bridge a horizontal length, you need to take into account the maximum force for the pipe.

The picture gives you an indication of the maximum force for different lengths for a standard pipe of 1mm coated steel pipe.



Lenght x approx.	Max strenght approx
450 mm	140 KG
900 mm	70 KG
1000 mm	58 KG
1100 mm	52 KG
1300 mm	46 KG
1500 mm	38 KG
1800 mm	32 KG

### Strengthening

To increase the maximum amount of force you can use multiple tricks in your design. The many different joints can always offer a solution. The drawing below shows two options and the change they bring in the maximum force the design can handle.

