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| Weld joint types | 3 |
| Metals |

Resources

* Mechanicalengineering.com

There are five different types of welded joints for bringing two parts together for joining.  
Five types of welded joints are butt joint, corner joint, lap joint, tee-joint and edge joint

### 1. Butt joint:

In Butt welded type, the parts lie in the same plane and are joined at their edges.

### 2. Corner joint:

The parts in a corner joint form a right angle and are joined at the center of the angle.

### 3. Lap joint:

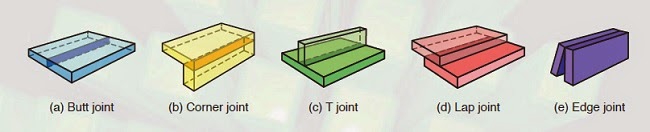
Lap joint consists of two overlapping parts.

### 4. Tee-joint:

In a Tee-joint, one joint is the right angle to the other joint in the approximate shape of the letter “T”.

### 5. Edge joint:

The parts in edge joint are parallel with at least one of their edges in common and the joint is made at the common edge(s)

[](https://cdn.me-mechanicalengineering.com/wp-content/uploads/2014/09/welded-joints-types.jpg)

A *cruciform joint* is a specific joint in which four spaces are created by the welding of three plates of metal at [right angles](https://en.wikipedia.org/wiki/Right_angle). Cruciform joints suffer [fatigue](https://en.wikipedia.org/wiki/Fatigue_(material)) when subjected to continuously varying loads.[[6]](https://en.wikipedia.org/wiki/Welding_joint#cite_note-6)

In the [American Bureau of Shipping](https://en.wikipedia.org/wiki/American_Bureau_of_Shipping) Rules for Steel Vessels, cruciform joints may be considered a double barrier if the two substances requiring a double barrier are in opposite corners diagonally. Double barriers are often required to separate [oil](https://en.wikipedia.org/wiki/Oil) and [seawater](https://en.wikipedia.org/wiki/Seawater), [chemicals](https://en.wikipedia.org/wiki/Chemical) and [potable water](https://en.wikipedia.org/wiki/Potable_water), etc.[[7]](https://en.wikipedia.org/wiki/Welding_joint#cite_note-7)

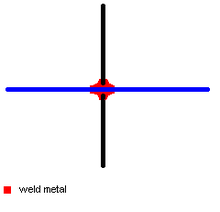
[](https://en.wikipedia.org/wiki/File:Cruciformjoint.png)

Diagram of a cruciform joint between 3 plates of metal