



Irvon Standard Tolerances

At Irvon we take pride in being able to offer the highest standards of accuracy in our products. Through modern production techniques, a high standard of experienced workmanship and exhaustive quality control procedures, we will typically offer the tolerances below.

Laser Cutting

Linear Tolerance (mm)

	Lengths			
Thk	<1000	1000+	5000+	12000+
<4	±1	±1	±1	±1
4+	±1	±1	±1	±1
10+	±1	±1	±1	±1
20+	±1	±1	±1	±1
40+	±2	±2	±2	±2
50+	±2	±2	±2	±2

Plate Rolling

Diameters (mm)

	Diameter				
Thk	<1000	1000+	2000+	3000+	4000+
<10	±3	±3	±3	±5	±10
10+	±3	±3	±3	±5	±10
50+	±4	±4	±5	±5	±10
100+	±5	±5	±5	±6	±10
150+	-	-	±6	±8	±10

Laser Bevel Cutting and Weld Prepping

Angle Tolerance (°)

	Lengths			
Thk	<1000	1000+	5000+	12000+
<4	± 1°	± 1°	± 1°	± 1°
4+	± 1°	± 1°	± 1°	± 1°
10+	± 1°	± 1°	± 1°	± 1°
20+	± 1°	± 1°	± 1°	± 1°
40+	± 2°	± 2°	± 2°	± 2°

Press-Braking

Leg lengths (mm)

	Leg Lengths (L) ¹		
Thk	<1000	1000+	3000+
<2	± 1	± 1	± 2
2+	± 1	± 1.5	± 2
3+	± 1	± 1.5	± 2
6+	± 1	± 1.5	± 2
8+	± 1	± 2	± 2
10+	± 1.5	± 2	± 2.5
15+	± 1.5	± 2	± 2.5
20+	± 2	± 2	± 2.5
25+	± 2	± 2	± 3

Plasma Cutting Bevelling

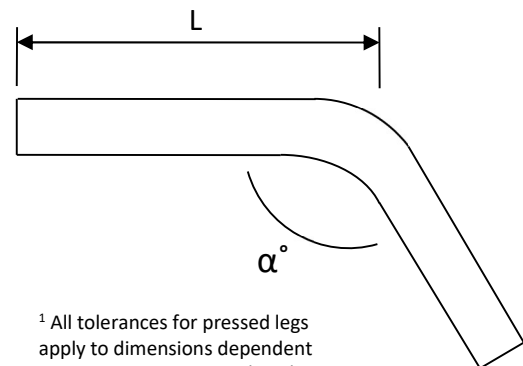
Linear Tolerance (mm)*

	Lengths			
Thk	<1000	1000+	3000+	6000+
<5	± 1	± 1	± 1	± 2
5+	± 1	± 1	± 1	± 2
10+	± 1	± 1	± 1	± 2
15+	± 1	± 2	± 2	± 2
20+	± 1	± 2	± 2	± 2
20-70	± 2	± 2	± 2	± 2

Tube Cutting

Linear Length Tolerance (mm)*

	Lengths			
Wall Thk	<1000	1000+	3000+	6000+
<20	± 2	± 2	± 2	± 2
20+	± 3	± 3	± 3	± 3



¹ All tolerances for pressed legs apply to dimensions dependent upon, at most, 2 pressed angles. Dimensions in the above table imply a guideline of ±1° on angles (α°).

*Tolerances on plasma cutting are measured on the top edge only.

*We can offer ±2° on all bevel cuts. All lengths measured from bevelled edges will have an additional 1mm added onto the tolerances above.

This document is intended as an indication of our typical production standards; however, the tolerances stated can vary and is dependent upon factors specific to certain jobs. Any tolerance requirements should be confirmed at the time of ordering.