

IPA standard overall length and width tolerances of resheared sheets and plates, of all metals, and plastics sheared after perforating.

Tolerances

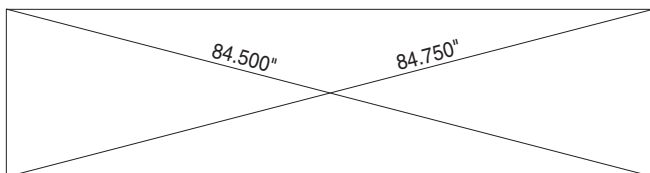
Thickness	Commercial Quality	Superior Quality	Special Quality*
30GA-10GA	± 1/8"	± 1/16"	
8GA -1/4"	± 1/4"	± 1/8"	
5/16"-1/2"	± 5/16"	± 5/32"	
9/16"-3/4"	± 3/8"	± 3/16"	
11/16"-1"	±1/2"	± 1/4"	

*If other special resheared tolerances are required, check with your IPA member supplier.

When steel plates or aluminum sheets and plates are purchased from the mill or service center as a sheared product, the above tolerances may not be achievable.

SQUARENESS OF SHEETS AND PLATES

Definition: "Out of square" is the greatest deviation of an end edge from a straight line at right angle to a side and touching one corner. It is also obtained by measuring the difference between the diagonals of the sheet. The out of square deviation is one-half of that difference. See example below:



$$\frac{84.750'' - 84.500''}{.250'' \div 2} = .125'' \text{ Out of Square}$$

TOLERANCE OF RESQUARED SHEETS AND PLATE

Thickness Range	Up to 72"		Up to 120"		Over 120" *
	Max. Tol. Out of Sq.	Diff. of Diagonal Measure	Max. Tol. Out of Sq.	Diff. of Diagonal Measure	
30-20GA Shts.	1/32"	1/16"	1/16"	1/8"	
19-16GA Shts.	1/16"	1/8"	1/8"	1/4"	
15-12GA Shts	3/32"	3/16"	3/16"	3/8"	
11-7GA Shts	3/16"	3/8"	3/8"	3/4"	
3/16"-3/8" Plate	1/4"	1/2"	1/2"	1"	
3/8"-5/8" Plate	3/8"	3/4"	3/4"	1-1/2"	
5/8"-1" Plate	3/4"	1-1/2"	1-1/2"	3"	

*Check with your member IPA supplier.