

Tolerance Specifications for Perforated Products

Standard Shearing (Cutting) Tolerances

Unless otherwise specified, Duke' standard shearing tolerance is +/- 1/8 inch.

Standard Circle Shearing Tolerances

Heavy Gauge	Light Gauge
11 gauge carbon steel	24 gauge carbon steel
16 gauge stainless steel	24 gauge stainless steel
Maximum and Minimum	3 - 48 inch diameter: tolerance of +/- 1/8 inch, except 11 gauge which has a tolerance of +/- 3/16 inch.

Standard Flatness Tolerances

Flatness tolerances are measured as the maximum deviation for horizontal flat surface. The table below lists the standard flatness tolerances for both sheets and plates.

Tolerances for Sheets

Sheet Thickness	Widths	Tolerances
16 gauge and heavier	Up to and including 60 inches.	1/2 Inch
	Between 60 and 72 inches.	3/4 Inch
	Over 72 inches.	1 Inch
17 gauge and lighter	Up to and including 36 inches.	1/2 Inch
	Between 36 and 60 inches.	3/4 Inch
	Over 60 inches.	1 Inch

Tolerances for Plates

Thickness	To 36 Inches*	36 to 48 inches*	48 to 60 inches*	60 to 72 inches*	72 to 84 inches*
To 1/4 Inch*	5/8 Inch	7/8 Inch	1-1/16	1-3/8	1-1/2

			Inches	Inches	Inches
1/4 to 3/8 Inch*	9/16 Inch	3/4 Inch	7/8 Inch	1-1/16 Inches	1-1/4 Inches
3/8 to 1/2 Inch*	1/2 Inch	5/8 Inch	11/16 Inch	3/4 Inch	7/8 Inch
1/4 to 3/4 Inch*	7/16 Inch	9/16 Inch	5/8 Inch	11/16 Inch	3/4 Inch

* exclusive

Standard Thickness Tolerances

The following table provides the standard thickness tolerance for perforated stock size sheet by material and thickness.

Gauge	Plain (carbon) Steel		Stainless Steel		Aluminum	
	Decimal	Tolerance	Decimal	Tolerance	Decimal	Tolerance
30	0.0120	0.0140	0.0125	N/A	0.010	N/A
		Inch				
		0.0100				
		Inch				
28	0.0149	0.0170	0.0156	0.0166	0.012	N/A
		Inch		0.0136		
		0.0130				
		Inch				
26	0.0180	0.0200	0.0178	0.0193	0.016	0.0175
		Inch		0.0163		Inch
		0.0160				0.0145
		Inch				Inch
24	0.0239	0.0270	0.0235	0.0240	0.020	0.0220
		Inch		0.0220		Inch
		0.0210				0.0180
		Inch				Inch
22	0.0299	0.0330	0.0293	0.0313	0.025	0.0270
		Inch		0.0273		Inch
		0.0270				0.0230
		Inch				Inch
20	0.0359	0.0390	0.0355	0.0375	0.032	0.0340
		Inch		0.0335		Inch
		0.0330				0.0300
		Inch				Inch
18	0.0478	0.0520	0.0480	0.0510	0.040	0.0425
		Inch		0.0450		Inch

		0.0440 Inch				0.0375 Inch
16	0.0598	0.0650 Inch	0.0595	0.0615 0.0565	0.050	0.0530 Inch
		0.0550 Inch				0.0470 Inch
14	0.0747	0.0817 Inch	0.0781	0.0821 0.0741	0.063	0.0660 Inch
		0.0677 Inch				0.0600 Inch
12	0.1046	0.1146 Inch	0.1094	0.1144 0.1044	0.080	0.0835 Inch
		0.0946 Inch				0.0765 Inch
11	0.1196	0.1296 Inch	0.1250	0.1300 0.1200	0.090	0.0935 Inch
		0.1096 Inch				0.0865 Inch
10	N/A	N/A	0.1406	0.1466 0.1346	0.100	0.1040 Inch
						0.0996 Inch
8	N/A	N/A	0.1650	0.1720 0.1580	0.125	0.1295 Inch
						0.1205 Inch
3/16 Inch	0.1875	0.2050 Inch	N/A	N/A	N/A	N/A
		0.1780 Inch				
1/4 Inch	0.2500	0.2700 Inch	N/A	N/A	N/A	N/A
		0.2400 Inch				
5/16 Inch	0.3125	0.3330 Inch	N/A	N/A	N/A	N/A
		0.3030 Inch				
3/8 Inch	0.3750	0.3980 Inch	N/A	N/A	N/A	N/A
		0.3650				

Inch

Standard Squareness Tolerances

Unless otherwise specified, Duke' standard squareness tolerance is +/- 1/8 inch