

Blind Rivet Size Chart

Tip: Set your PDF viewer to "Actual size" before printing to maintain scale.

Standard Inch Sizes

Rivet Diameter	Drill Bit Size	Decimal Size	Head Diameter	Min Grip	Max Grip	Typical Applications
3/32"	#40	0.098"	0.187"	0.030"	0.125"	Light electronics
3/32"	#40	0.098"	0.187"	0.126"	0.250"	Thin sheet metal
1/8"	#30	0.129"	0.250"	0.030"	0.187"	General sheet metal
1/8"	#30	0.129"	0.250"	0.188"	0.312"	HVAC, enclosures
1/8"	#30	0.129"	0.250"	0.313"	0.500"	Automotive, trailers
5/32"	#20	0.161"	0.313"	0.063"	0.250"	Medium sheet metal
5/32"	#20	0.161"	0.313"	0.251"	0.437"	Auto body, HVAC
5/32"	#20	0.161"	0.313"	0.438"	0.625"	Heavy fabrication
3/16"	#9	0.196"	0.375"	0.063"	0.312"	Heavy sheet metal
3/16"	#9	0.196"	0.375"	0.313"	0.500"	Trailers, trucks
3/16"	#9	0.196"	0.375"	0.501"	0.750"	Industrial equipment
1/4"	F	0.257"	0.500"	0.125"	0.500"	Structural applications
1/4"	F	0.257"	0.500"	0.501"	0.750"	Heavy structural
1/4"	F	0.257"	0.500"	0.751"	1.000"	Very heavy duty

Metric Sizes

Rivet Diameter	Drill Bit Size	Head Diameter	Min Grip	Max Grip	Typical Applications
2.4mm	2.5mm	4.8mm	0.5mm	3.0mm	Electronics, light assemblies
2.4mm	2.5mm	4.8mm	3.0mm	6.0mm	Thin panels, enclosures
3.2mm	3.3mm	6.4mm	1.0mm	6.0mm	General sheet metal
3.2mm	3.3mm	6.4mm	6.0mm	12mm	Automotive, HVAC
4.0mm	4.1mm	8.0mm	1.5mm	8.0mm	Medium fabrication
4.0mm	4.1mm	8.0mm	8.0mm	16mm	Heavy sheet metal
4.8mm	5.0mm	9.6mm	2.0mm	10mm	Heavy fabrication
4.8mm	5.0mm	9.6mm	10mm	20mm	Industrial, structural
6.4mm	6.6mm	12.8mm	3.0mm	15mm	Structural applications
6.4mm	6.6mm	12.8mm	15mm	25mm	Heavy structural

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Grip Range Selection Guide

Step 1: Measure Total Grip

- Add the thickness of ALL materials being joined together
- Include any washers, gaskets, or other components in the joint
- This total is your "grip" dimension

Step 2: Select Rivet Grip Range

- Choose rivet with grip range that INCLUDES your measured grip
- Grip should fall in middle of range when possible, not at extremes
- Add 1/32" to 1/16" clearance for best results

Example Calculations

Example 1: Joining 0.040" + 0.063" sheets = 0.103" total grip

- Select 1/8" rivet with 0.030"-0.187" grip range

Example 2: Joining 0.090" + 0.125" sheets = 0.215" total grip

- Select 1/8" rivet with 0.188"-0.312" grip range

Example 3: Joining 2mm + 3mm sheets = 5mm total grip

- Select 3.2mm rivet with 1.0mm-6.0mm grip range

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Large Flange Rivet Sizes

Rivet Diameter	Standard Head Diameter	Large Flange Head Diameter	Increase	Best For
3/32"	0.187"	0.281" (9/32")	+50%	Very thin materials
1/8"	0.250"	0.375" (3/8")	+50%	Soft materials, plastics
5/32"	0.313"	0.500" (1/2")	+60%	Fiberglass, composites
3/16"	0.375"	0.625" (5/8")	+67%	Large soft material joints
1/4"	0.500"	0.750" (3/4")	+50%	Heavy soft materials

Countersunk Rivet Specifications

Rivet Diameter	Countersink Angle	Countersink Diameter	Countersink Depth	Material Thickness Min
3/32"	100°	0.187"	0.040"	0.050"
1/8"	100°	0.250"	0.055"	0.063"
5/32"	100°	0.313"	0.068"	0.080"
3/16"	100°	0.375"	0.082"	0.090"
1/4"	100°	0.500"	0.109"	0.125"

Note: Countersunk rivets require material thickness sufficient for full countersink depth. Use dome head rivets for thinner materials.

Quick Reference - Most Common Sizes

- **1/8" diameter, 0.188"-0.312" grip:** Most versatile, covers 80% of general fabrication
- **5/32" diameter, 0.251"-0.437" grip:** Automotive body panels, medium-duty applications
- **3/16" diameter, 0.313"-0.500" grip:** Heavy sheet metal, trailer construction
- **3.2mm diameter, 1.0mm-6.0mm grip:** Most common metric size for general use

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