

Fasteners



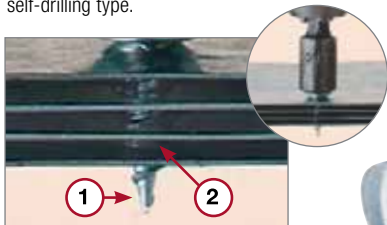
Self-Piercing

Sheet Metal Screws

The Standard by which all others are judged.

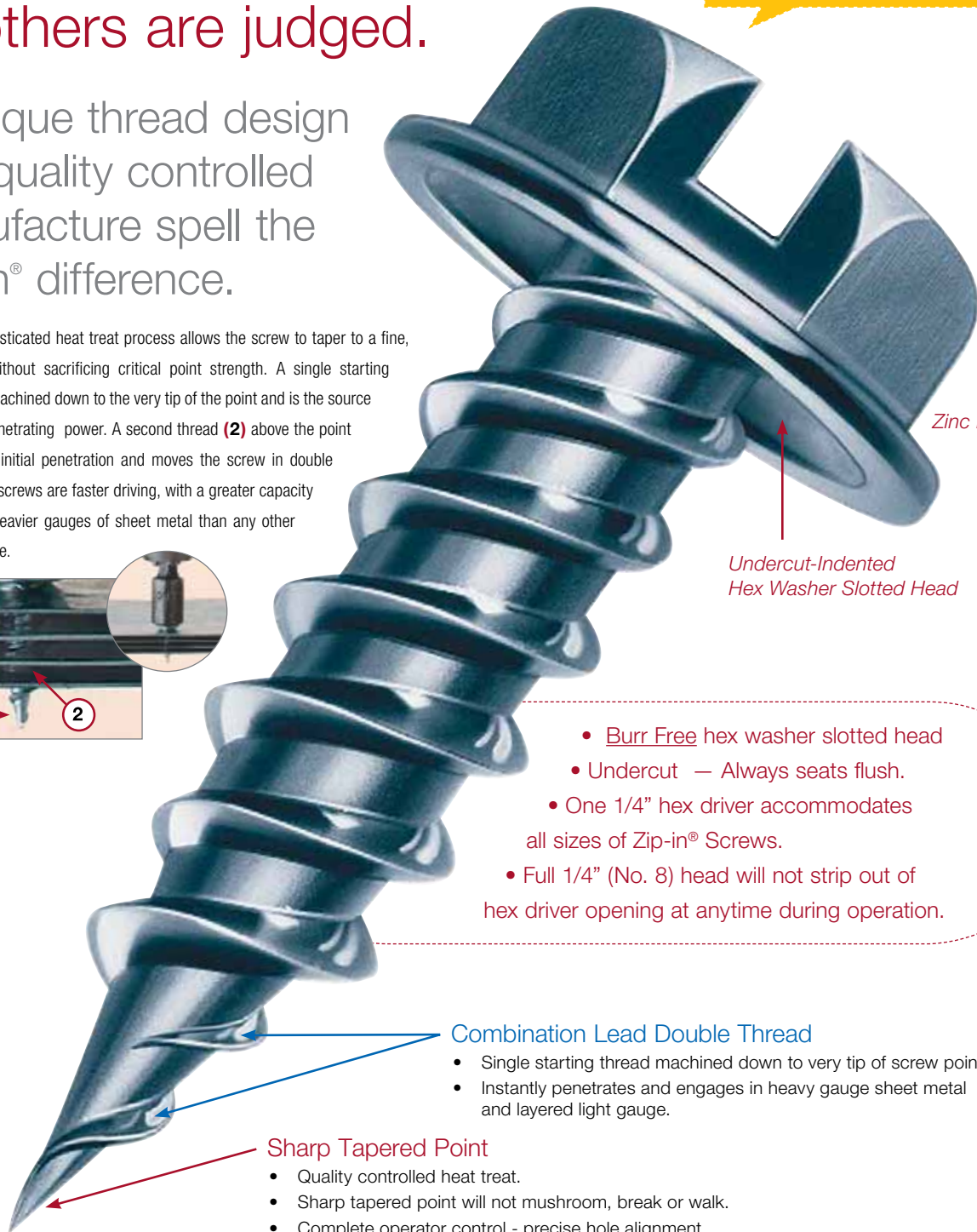
A unique thread design and quality controlled manufacture spell the Zip-in® difference.

Zip-in's® sophisticated heat treat process allows the screw to taper to a fine, sharp point without sacrificing critical point strength. A single starting thread (1) is machined down to the very tip of the point and is the source of Zip-in's® penetrating power. A second thread (2) above the point engages after initial penetration and moves the screw in double fast. Zip-in's® screws are faster driving, with a greater capacity for fastening heavier gauges of sheet metal than any other self-drilling type.



Rated #1

Zip-in® Screws are the best selling sheet metal screws worldwide.



- Burr Free hex washer slotted head
- Undercut — Always seats flush.
- One 1/4" hex driver accommodates all sizes of Zip-in® Screws.
- Full 1/4" (No. 8) head will not strip out of hex driver opening at anytime during operation.

Combination Lead Double Thread

- Single starting thread machined down to very tip of screw point.
- Instantly penetrates and engages in heavy gauge sheet metal and layered light gauge.

Sharp Tapered Point

- Quality controlled heat treat.
- Sharp tapered point will not mushroom, break or walk.
- Complete operator control - precise hole alignment.

U.S. Patent No. D524,638



Look for the Dots!® Trademarked & Patented Head Markings indicate one and only genuine Zip-ins®.

Self-Piercing Sheet Metal Screws Consistent High Quality from Head to Tip.

Specifications

| Catalog Number | Description | Head Color | Head Size |
|-----------------------|---------------|---------------|-----------|
| Zip-in® Screws | | | |
| HW6x3/8Z | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW7x1/2Z* | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW8x1/2Z* | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW8x3/4Z* | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW8x1Z* | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW8x1-1/2Z* | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW8x2Z* | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW10x1/2Z | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW10x3/4Z | Zip-in® Screw | ● Zinc Plated | 1/4" |
| HW10x1Z | Zip-in® Screw | ● Zinc Plated | 1/4" |

White Painted Zip-in® Register Screws

| | | | |
|-------------|---------------|-------------|------------------|
| HW8x1-1/2ZW | Zip-in® Screw | ○ White (W) | 1/4" Hex Slotted |
| HW8x2ZW | Zip-in® Screw | ○ White (W) | 1/4" Hex Slotted |
| HW8x3ZW | Zip-in® Screw | ○ White (W) | 1/4" Hex Slotted |
| PO8x2ZW | Zip-in® Screw | ○ White (W) | #2 Phillips |

Painted Sheet Metal Screws

| | | | |
|------------|-------------------|----------------------|------|
| HW6x3/8ZA | Sheet Metal Screw | ● Almond (A) | 1/4" |
| HW6x3/8ZCC | Sheet Metal Screw | ● Classic Cream (CC) | 1/4" |
| HW6x3/8ZCL | Sheet Metal Screw | ● Clay (C) | 1/4" |
| HW6x3/8ZMB | Sheet Metal Screw | ● Musket Bronze (MB) | 1/4" |
| HW6x3/8ZRB | Sheet Metal Screw | ● Royal Brown (RB) | 1/4" |
| HW6x3/8ZW | Sheet Metal Screw | ○ White (W) | 1/4" |
| HW7x1/2ZA | Sheet Metal Screw | ● Almond (A) | 1/4" |
| HW7x1/2ZCC | Sheet Metal Screw | ● Classic Cream (CC) | 1/4" |
| HW7x1/2ZCL | Sheet Metal Screw | ● Clay (C) | 1/4" |
| HW7x1/2ZMB | Sheet Metal Screw | ● Musket Bronze (MB) | 1/4" |
| HW7x1/2ZRB | Sheet Metal Screw | ● Royal Brown (RB) | 1/4" |
| HW7x1/2ZW | Sheet Metal Screw | ○ White (W) | 1/4" |
| HW8x1ZRB | Sheet Metal Screw | ● Royal Brown (RB) | 1/4" |
| HW8x1ZW | Sheet Metal Screw | ○ White (W) | 1/4" |
| HW8x3/4ZRB | Sheet Metal Screw | ● Royal Brown (RB) | 1/4" |
| HW8x3/4ZW | Sheet Metal Screw | ○ White (W) | 1/4" |

Drill-In Screws Type A, Single Thread

| | | | |
|------------|----------------|---------------|-------|
| HW10x1-1/2 | Drill-In Screw | ● Zinc Plated | 5/16" |
| HW10x2 | Drill-In Screw | ● Zinc Plated | 5/16" |
| HW12x2 | Drill-In Screw | ● Zinc Plated | 5/16" |

| Catalog Number | Anchor Size | Screw Size(s) | For Screw Size | Uses Bit Diameter | Anchor Kit Quantity |
|---|----------------|---------------|----------------|-------------------|---------------------|
| Red Lip Plastic Anchors | | | | | |
| PA810 | 3/16" x 7/8" | — | 8-9-10 | 3/16" | — |
| PA1012 | 1/4" x 1" | — | 10-12 | 1/4" | — |
| PA1416 | 5/16" x 1-3/8" | — | 14-16 | 5/16" | — |
| Red Lip Plastic Anchor Kits | | | | | |
| PA810K | 3/16" x 7/8" | SP8x1 | — | 3/16" | 100 |
| PA1012K | 1/4" x 1" | SP10x1-1/4 | — | 1/4" | 100 |
| PA1416K | 5/16" x 1-3/8" | SP14x1-1/2 | — | 5/16" | 50 |
| Red Lip Plastic Anchor Kits with Hex Washer Screws | | | | | |
| PA810KW | 3/16" x 7/8" | HW8x1Z | — | 3/16" | 100 |
| PA1012KW | 1/4" x 1" | HW10x1Z | — | 1/4" | 100 |

* Denotes popular screw sizes available in pails.

Consult Malco Suggested Trade Prices for specific package quantities available for each screw size.

Count on Malco for full, accurate piece counts in every ZIP-IN package you buy.

Note: Package sizes available in handy boxes, tubs, bulks & pails.



2-Inch Length Phillips Oval Head



3-Inch Length 1/4" Hex Head

Painted Sheet Metal / Drill-In Screws



Drill-In Screws Type A, Single Thread

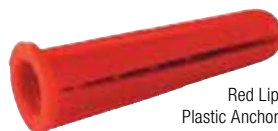


Packaged in Bags and Tubs.

Painted Sheet Metal Screws

Red Lip Plastic Anchors Kits / Kits with Hex Washer Heads

Use with wood, sheet metal or lag screws. Flexible anchor is ideal for masonry or stone. Lip on collar prevents anchor from pushing through hole in hollow walls.



Red Lip Plastic Anchor

Red Lip Plastic Anchor Kits

All kits contain equal quantities of anchors and screws with one matching carbide tipped drill bit.



PA1012K

Drill & Tap

Screws

The One Operation Fastener with a True Drilling Action Point

By drilling its own hole, Bit-Tip® produces the optimum hole size, resulting in better thread engagement and a tighter fit. One operation fastening also means no alignment problems.

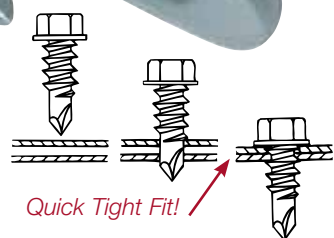
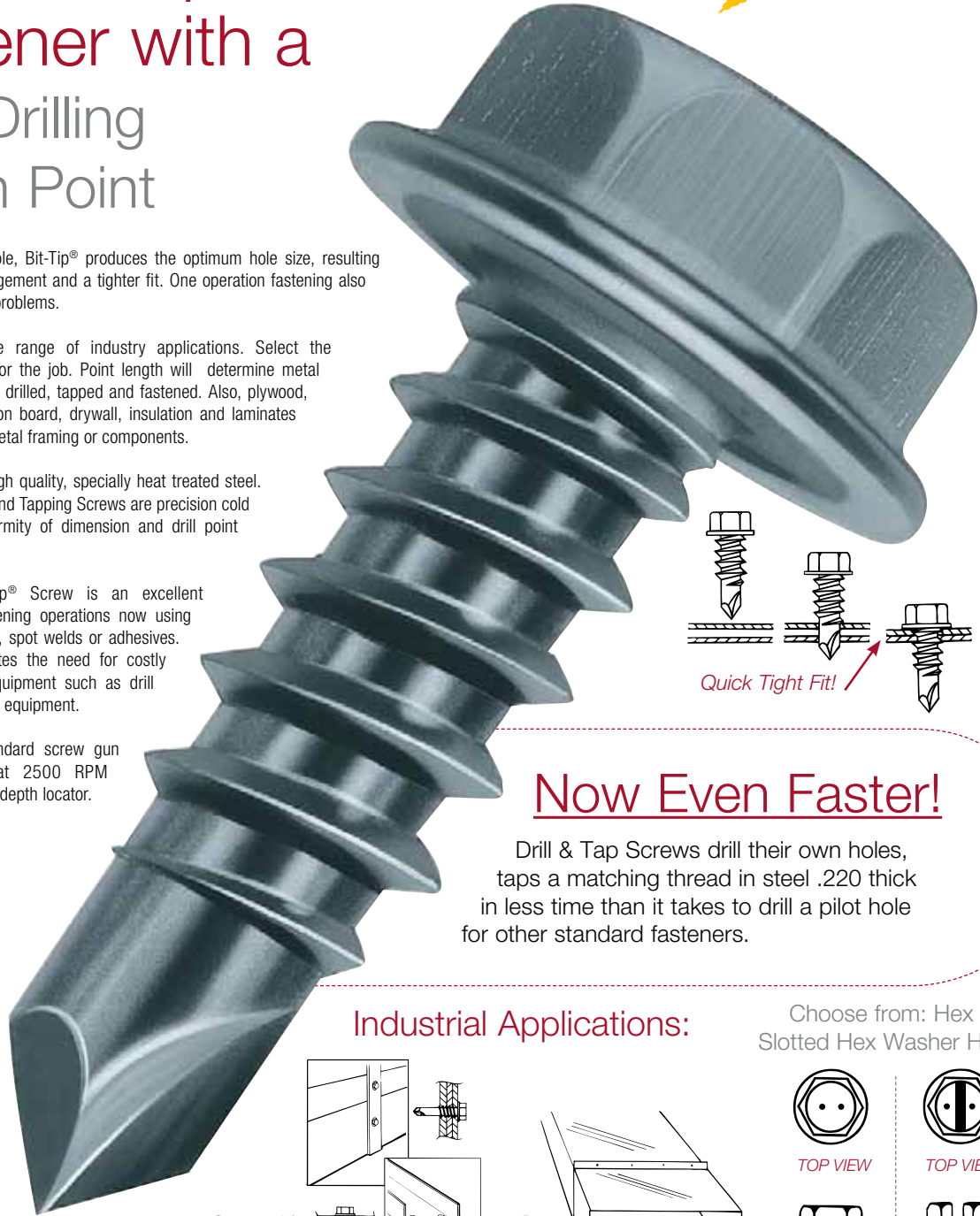
Bit-Tip® has a wide range of industry applications. Select the Bit-Tip® that's right for the job. Point length will determine metal thickness that can be drilled, tapped and fastened. Also, plywood, soft wood, composition board, drywall, insulation and laminates may be fastened to metal framing or components.

Made from strong, high quality, specially heat treated steel. Bit-Tip® Self Drilling and Tapping Screws are precision cold forged insuring uniformity of dimension and drill point contours.

The versatile Bit-Tip® Screw is an excellent replacement for fastening operations now using rivets, nuts and bolts, spot welds or adhesives. Bit-Tip® also eliminates the need for costly auxiliary fastening equipment such as drill bits, taps and welding equipment.

Requires only a standard screw gun power tool rated at 2500 RPM equipped with drilling depth locator.

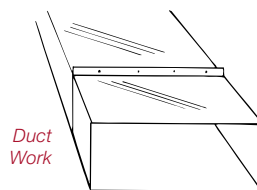
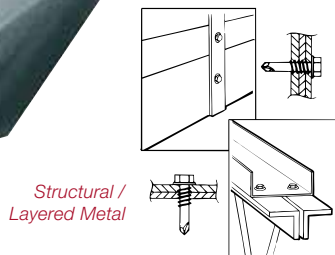
Time Saver
Bit-Tip® Drill and Tap Screws produce optimum hole size for a quick tight fit!



Now Even Faster!

Drill & Tap Screws drill their own holes, taps a matching thread in steel .220 thick in less time than it takes to drill a pilot hole for other standard fasteners.

Industrial Applications:



Choose from: Hex or Slotted Hex Washer Heads



TOP VIEW



HEX WASHERS



TOP VIEW



HEX Slotted WASHERS

U.S. Patent No. D524,638



Look for the Dots! ® Trademarked & Patented Head Markings indicate one and only genuine Bit-Tips®.

Drill & Tap Screws Specifications



NOTE: Package sizes available in handy boxes, tubs, bulks and Pails.
* Denotes popular screw sizes available in pails.

Material thickness recommendation for Bit-Tips®

| | | | | | For This Material Thickness | | | |
|---------------------------|-------|-----------|-------------|------|-----------------------------|------|------|------|
| | | | | | .050 | .100 | .150 | .200 |
| Bit-Tip Screw #2 Point | BT131 | HW | 8-18x1/2 | 1/4 | | | | |
| | BT132 | HW | 8-18x5/8 | 1/4 | | | | |
| | BT133 | HW | 8-18x3/4 | 1/4 | | | | |
| | BT134 | HW | 8-18x1 | 1/4 | | | | |
| | BT231 | HS | 8-18x1/2 | 1/4 | | | | |
| | BT233 | HS | 8-18x3/4 | 1/4 | | | | |
| BT141 | HW | 10-16x1/2 | 5/16 | .035 | .110 | | | |
| Bit-Tip Screw #3 Point | BT142 | HW | 10-16x5/8 | 5/16 | | | | |
| | BT143 | HW | 10-16x3/4 | 5/16 | | | | |
| | BT144 | HW | 10-16x1 | 5/16 | | | | |
| | BT153 | HW | 10-24x3/4 | 5/16 | | | | |
| | BT156 | HW | 10-24x1-1/2 | 5/16 | | | | |
| Bit-Tip Screw #3 Point | BT163 | HW | 12-14x3/4 | 5/16 | | .110 | .210 | |
| | BT164 | HW | 12-14x1 | 5/16 | | .110 | .210 | |
| | BT174 | HW | 1/4-14x1 | 3/8 | | .110 | .220 | |

Consult Malco Suggested Trade Prices for specific package quantities available for each screw size.

Count on Malco for full, accurate piece counts in every Bit-Tip® package you buy.

Test results furnished are given purely as a guide and do not constitute a warranty of any type.
Results may vary by modification to the fastener or in certain applications.

Bit-Tip® Screw Strength

| | | | Pull-out values (lbs), in common steel gauges | | | | | | | | | | Thread Strength lbs. | Torsional Strength lbs. | |
|-----|----|----|---|-----|-----|-----|-----|-----|-------|-------|-------|-------|----------------------|-------------------------|------|
| | | | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 13 | 1/8 | 10 | | | 3/16 |
| 6 | 20 | #2 | 141 | 208 | 268 | 331 | 513 | 633 | 874 | | | | | 1125 | 24 |
| | 18 | #2 | 150 | 187 | 289 | 334 | 507 | 643 | 977 | | | | | 1575 | 42 |
| 10 | 16 | #2 | 145 | 235 | 295 | 364 | 572 | 708 | 1,015 | 1,972 | | | | 2100 | 61 |
| | 24 | #3 | | | | | | | | 1,528 | 2,120 | 2,199 | | 2350 | 65 |
| 12 | 14 | #3 | | | | | | | | 1,541 | 1,990 | 2,650 | 3,515 | 2800 | 92 |
| 1/4 | 14 | #3 | | | | | | | | 1,504 | 1,818 | 2,413 | 3,190 | 3850 | 150 |
| | 14 | #3 | | | | | | | | 1,788 | 2,330 | 2,830 | 4,420 | 4275 | 168 |

Blind Rivets



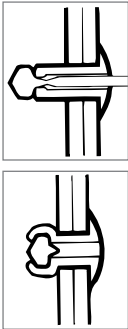
Steel / Aluminum / Stainless / Copper / Painted & Washers

Painted Rivets

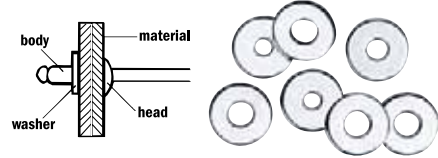
Aluminum Rivet and Mandrel

| | | |
|-----------|---|---------------|
| AA42DCC = | ● | Classic Cream |
| AA42DMB = | ● | Musket Bronze |
| AA42DRB = | ● | Royal Brown |
| AA42DW = | ○ | White |
| AA44DMB = | ● | Musket Bronze |
| AA44DRB = | ● | Royal Brown |
| AA44DW = | ○ | White |

Available in 100 piece bags.
See price list for more package sizes.



Rivet Washers



Back up washers for riveting in soft materials. Non-blind applications only. Install washer on rivet head protruding through backside of material to be fastened. Washers are zinc plated steel.

| Catalog Number | Size in. (mm) | Inside Dia. in. (mm) | Outside Dia. in. (mm) | Thickness in. (mm) |
|----------------|---------------|----------------------|-----------------------|--------------------|
| 4RW | 1/8 (3.18) | .130 (3.30) | .500 (12.70) | .0478 (1.21) |
| 5RW | 5/32 (3.98) | .160 (4.06) | .500 (12.70) | .0478 (1.21) |
| 6RW | 3/16 (4.75) | .191 (4.85) | .500 (12.70) | .0478 (1.21) |

Shear and Tensile Strengths



| Rivet / Mandrel | Rivet Dia. | Minimum Shear | Tensile lbs. |
|----------------------------|------------|---------------|--------------|
| Steel Rivet | 1/8" | 260 | 310 |
| Steel Mandrel | 3/16" | 540 | 680 |
| Aluminum Rivet | 1/8" | 120 | 150 |
| Aluminum Mandrel | 3/16" | 260 | 320 |
| Aluminum Rivet | 1/8" | 120 | 150 |
| Steel Mandrel | 3/16" | 260 | 320 |
| Stainless Rivet | 1/8" | 420 | 530 |
| Either Mandrel | 3/16" | 950 | 1200 |
| Copper Rivet Steel Mandrel | 1/8" | 350 | 450 |

Specifications * DW= White Painted Rivets (indicated by the ○). See above for more painted rivets.

| Rivet Diameter | Description | Hole Size # / Drill # | Rivet Diameter | Rivet Body Length | Rivet Body Diameter | Rivet Head Width | Rivet Head Thickness | Grip |
|----------------|---|-----------------------|----------------|-------------------|---------------------|------------------|----------------------|-----------|
| SS42D | Steel Rivet Plated Steel Mandrel | — | 1/8" | .232 | .125 | .250 | .032 | .063-.125 |
| SS43D | Steel Rivet Plated Steel Mandrel | — | 1/8" | .294 | .125 | .250 | .032 | .126-.187 |
| SS44D | Steel Rivet Plated Steel Mandrel | — | 1/8" | .357 | .125 | .250 | .032 | .188-.250 |
| SS46D | Steel Rivet Plated Steel Mandrel | — | 1/8" | .481 | .125 | .250 | .032 | .313-.375 |
| SS42DW * ○ | Steel Rivet Plated Steel Mandrel | .232 / Drill #30 | 1/8" | .125 | .250 | .032 | .063-.125 | — |
| SS44DW * ○ | Steel Rivet Plated Steel Mandrel | .357 / — | 1/8" | .125 | .250 | .032 | .188-.250 | .126-.187 |
| SS62D | Steel Rivet Plated Steel Mandrel | — | 3/16" | .277 | .187 | .375 | .047 | .020-.125 |
| SS64D | Steel Rivet Plated Steel Mandrel | .192-.196 / — | 3/16" | .402 | .187 | .375 | .047 | .188-.250 |
| SS66D | Steel Rivet Plated Steel Mandrel | — / Drill #11 | 3/16" | .527 | .187 | .375 | .047 | .251-.375 |
| AA42D | Aluminum Rivet Aluminum Mandrel | — | 1/8" | .232 | .125 | .250 | .032 | .063-.125 |
| AA43D | Aluminum Rivet Aluminum Mandrel | — | 1/8" | .294 | .125 | .250 | .032 | .126-.187 |
| AA44D | Aluminum Rivet Aluminum Mandrel | — | 1/8" | .357 | .125 | .250 | .032 | .188-.250 |
| AA46D | Aluminum Rivet Aluminum Mandrel | — | 1/8" | .481 | .125 | .250 | .032 | .313-.375 |
| AA48D | Aluminum Rivet Aluminum Mandrel | .128-.132 / — | 1/8" | .606 | .125 | .250 | .032 | .376-.500 |
| AA42DW * ○ | Aluminum Rivet Aluminum Mandrel (White) | .232 / Drill #30 | 1/8" | .125 | .250 | .032 | .063-.125 | — |
| AA44DW * ○ | Aluminum Rivet Aluminum Mandrel (White) | .357 / — | 1/8" | .125 | .250 | .032 | .188-.250 | — |
| AA64D | Aluminum Rivet Aluminum Mandrel | — / Drill #11 | 3/16" | .527 | .187 | .375 | .047 | .251-.375 |
| AS42D | Aluminum Rivet Plated Steel Mandrel | — | 1/8" | .232 | .125 | .250 | .032 | .063-.125 |
| AS44D | Aluminum Rivet Plated Steel Mandrel | — | 1/8" | .357 | .125 | .250 | .032 | .188-.250 |
| SS/SS42D | Stainless Rivet Stainless Mandrel | — | 1/8" | .232 | .125 | .250 | .032 | .063-.125 |
| SS/SS44D | Stainless Rivet Stainless Mandrel | — | 1/8" | .357 | .125 | .250 | .032 | .188-.250 |
| SS/SS46D | Stainless Rivet Stainless Mandrel | — | 1/8" | .481 | .125 | .250 | .032 | .313-.375 |
| SS/SS48D | Stainless Rivet Stainless Mandrel | .128-.132 / — | 1/8" | .606 | .125 | .250 | .032 | .376-.500 |
| CS42D | Copper Rivet Plated Steel Mandrel | — | 1/8" | .232 | .125 | .250 | .032 | .063-.125 |
| CS44D | Copper Rivet Plated Steel Mandrel | — | 1/8" | .357 | .125 | .250 | .032 | .188-.250 |