

Fasteners



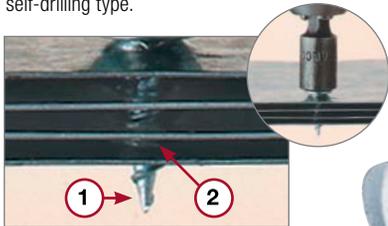
Self-Piercing

Sheet Metal Screws

The Standard by which all others are judged.

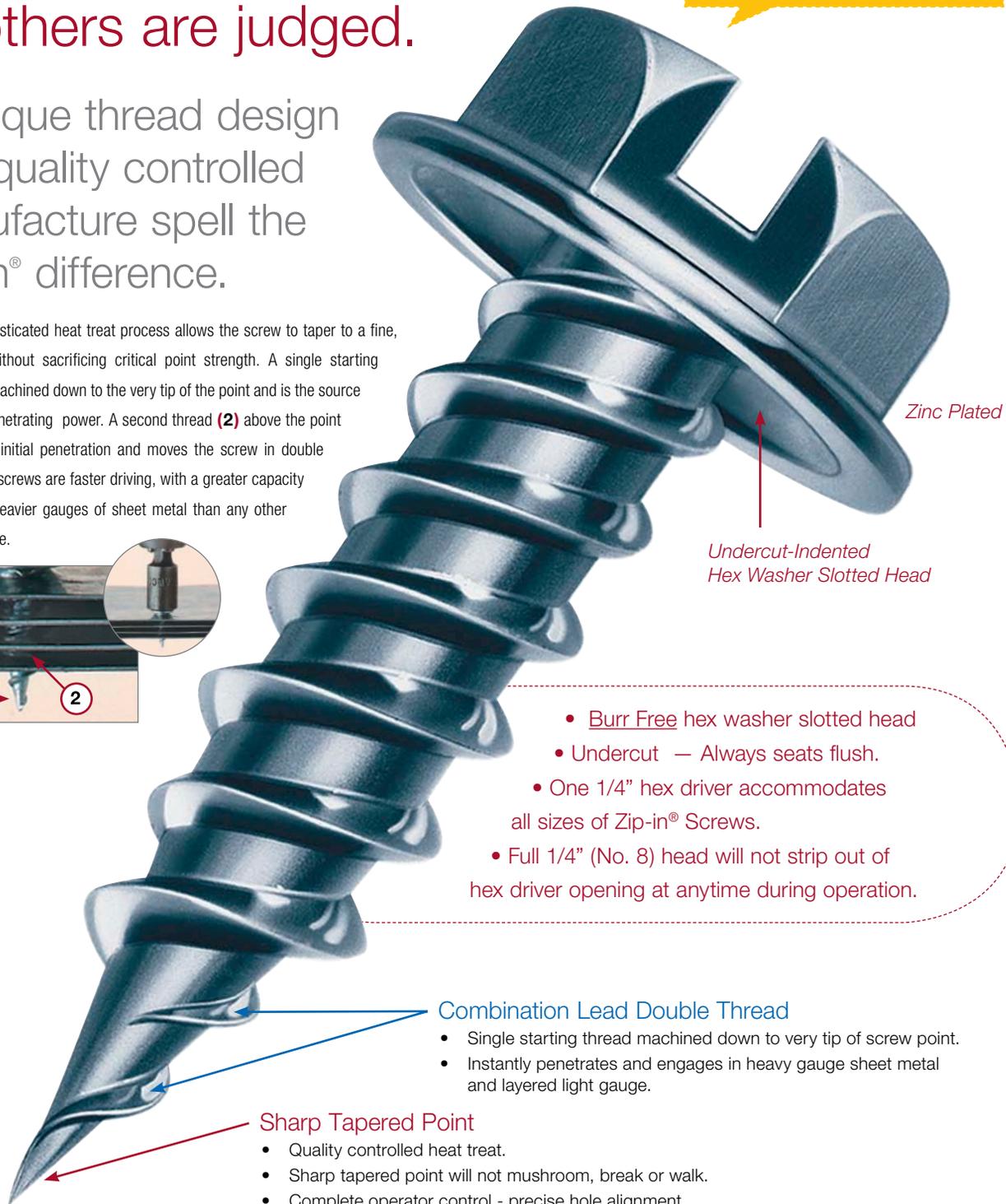
A unique thread design and quality controlled manufacture spell the Zip-in® difference.

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.



Zinc Plated

Undercut-Indented
Hex Washer Slotted Head

- 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.



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



PA1012K

Red Lip Plastic Anchor Kits

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

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.

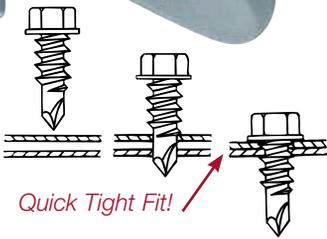
Bit-Tip® has a wide range of industry applications. Select the Bit-Tip® that's right for the job. Point length will determine metal thickness that can be drilled, tapped and fastened. Also, plywood, soft wood, composition board, drywall, insulation and laminates may be fastened to metal framing or components.

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.

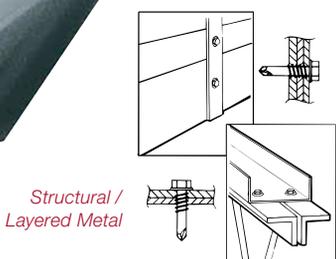
Time Saver
Bit-Tip® Drill and Tap Screws produce optimum hole size for a quick tight fit!



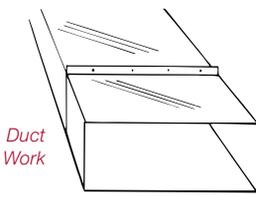
Now Even Faster!

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:



Structural / Layered Metal



Duct Work

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	.035	.100		
	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				
Bit-Tip Screw #3 Point	BT141	HW	10-16x1/2	5/16	.035	.110		
	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				
	BT174	HW	1/4-14x1	3/8				

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



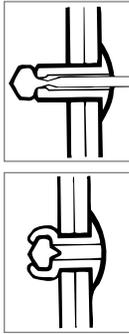
Steel / Aluminum / Stainless / Copper / Painted & Washers

Painted Rivets

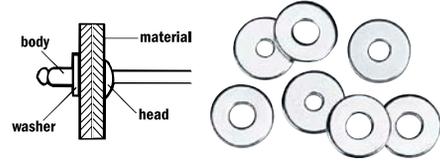
Aluminum Rivet and Mandrel

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