



# **Washed Metal to Wood Fastener Selection Guide January 1, 2022**



## ECONOMY METAL TO WOOD POST FRAME FASTENERS

### #10 WOODZIP™ TP-17 Metal to Wood Screw

Designed for the installation of metal roofing and sidewall panels into wood substrates. The WoodZip features a thick bonded E.P.D.M. washer for a positive seal against steel panels. The TP-17 slotted cut point helps to reduce penetration shavings while the 1/4" HWH drive provides a stable driving platform. Thought of as an "all purpose" woodscrew, the WoodZip can be used in many other applications including ridge vent installation, fixture attachment and post frame building panel installation.

#### Advantages:

- TP-17 point reduces penetration shavings
- Thick EPDM washer for a weathertight seal
- Full DMG85 coating for corrosion resistance
- Low cost

**Certifications:** The WoodZip has the multi layer DMG85 long life anti corrosion coating on the entire screw. This fastener meets the 2017 Florida Building Code Version section R904.5.2 corrosion resistance requirement and has a Miami-Dade County P.C Listing L 21-0630.02

22 standard colors to match a variety of popular metal panel colors. All colors and lengths are packaged in convenient 250 count bags.

Pull out Substrate	Pull out Ultimate Value
1" x 4" Pine	999 lbs
1/2" Plywood	412 lbs
7/16 (1/2") OSB	192 lbs



L 21-0630.02

Available Sizes	Qty/Box	Part#
#10 x 1"	2,500	DMI4H100
#10 x 1-1/2"	2,500	DMI4H150
#10 x 2"	2,000	DMI4H200
#10 x 4" Silver	1,000	DMI4HCS400
#10 x 4" Br White	1,000	DMI4HCW400

### #10 WOODGRIP™, #12 WOODGRIP XG, #14 WOODGRIP TAPPER

The original Woodgrip brand of metal roofing and post frame fasteners upgraded with full coat VistaCoat long life anti-corrosion coating. DMI offers the full line of #10, #12 and #14 Woodgrip fasteners in standard colors to match popular metal panels. All sizes come assembled with either a bonded E.P.D.M. washer. #10 & #12 fasteners all have 1/4" HWH head drive and are packaged 250 pcs / bag. #10 features TP-17 cut-point and bonded washer. #12 XG provides higher holding strength and is suggested for OSB or plywood substrates. The #12 Woodgrip is not a replacement fastener please use the #14 part when replacing #9 or #10 fasteners. All Woodgrip™ fasteners are bagged 250/bag.

Pull out Substrate	Pull out Ultimate Value
1" x 4" Pine	#10 524 lbs #12 590 lbs #14 668 lbs
1/2" PLY	#12 357 lbs
15/32 (1/2") OSB	#12 225 lbs



#10 Sizes	Qty/Box	Part# (Not Shown)
#10 x 1"	3,000	DMI2V1008CDF
#10 x 1-1/2"	2,500	DMI2V1012CDF
#10 x 2"	2,000	DMI2A1016CDF
#10 x 2-1/2"	1,500	DMI2V1020CDF
#10 x 3"	1,000	DMI2V1020CDF

Part # on box may vary from the above.

#12 XG Sizes	Qty/Box	Part# (Shown in Red)
#12 X 3/4" STIT	2,500	DMI2V1701ECF
#12 x 1"	2,500	DMI2V1806EMF
#12 x 1-1/2"	2,000	DMI2V1841EMF
#12 x 2"	1,500	DMI2V1851EMF
#12 x 2-1/2"	1,000	DMI2V1856EMF
#12 x 3"	1,000	Discontinued

#14 Tapper	Qty/Box	Part# (Shown in Blue)
#14 x 1"	2,500	DMI2V3321GBF
#14 x 1-1/2"	2,000	DMI2V3438GBF
#14 x 2"	1,500	DMI2V3531GBF
#14 x 2-1/2"	1,000	DMI2A3597GBF
#14 x 3"	1,000	Discontinued

### #10 DIRECT\*SEAL ST Fastener with M-Bit

Direct\*Seal ST fastener is designed to attach steel roofing and siding panels used in post-frame and residential metal roofing applications to wood substrates. The Micro-Bit drill point reduces metal pig-tails/shavings that can be embedded into the washer. A vulcanized E.P.D.M. washer provides a positive seal against the steel panels. Painted fasteners are available with a corrosion resistant powder coated head paint and mechanically applied galvanized plating. All colors and lengths are packaged in convenient 250 count bags.

Available Sizes	Qty/Box	Part#
#10 x 1"	3,000	DMI3DSF10100M
#10 x 1-1/2"	2,500	DMI3DSF10150M
#10 x 2"	2,000	DMI3DSF10200M
#10 x 2-1/2"	1,500	DMI3DSF10250M
#10 x 3"	1,000	DMI3DSF10300M

Part # on box may vary from the above.  
Painted parts ship from Midwest Service Center only.

Pull out Substrate	Pull out Ultimate Value
2" x 4" Pine	713 lbs
1/2" Plywood	368 lbs
7/16 (1/2") OSB	210 lbs





# WOODZAC™ & ZXL LONG LIFE FASTENERS LONG LENGTH MULTI-PURPOSE FASTENERS

## #12 Direct\*Seal MP Screw - Multi-Purpose Fasteners

Designed for a multitude of applications including panel and fixture attachment to wood, masonry or light gauge metal substrates. The Direct\*Seal MP is a popular choice for when you need a longer than standard metal roofing screw in applications such as screw through metal panel installation over rigid insulation into wood or metal deck substrates. Features a 1/4" HWH head with a bonded EPDM sealing washer the fasteners are zinc plated and fully coated with DMG85 silver protective barrier coating. The SD1 point and truss style threads allow this fastener to self drill into wood and light gauge metal up to 18 ga, and is also able to tap into predrilled holes in masonry block and standard weight concrete substrates. Its large #12 diameter also allows it to function as a replacement fastener for old /worn #9 and #10 metal roofing fasteners. Packaged in resealable plastic pail suitable for front counter or display sales.

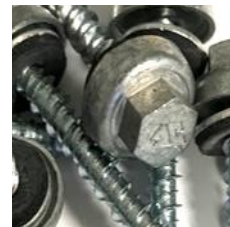


Sizes	Qty/Pail	Part#
#12 x 3/4"	400,4P/C	DMI3DSF12034DP1WT
#12 x 1-1/2"	300,4P/C	DMI3DSF12150DP1WT
#12 x 2-1/4"	250,4P/C	DMI3DSF12214DP1WT
#12 x 3-3/4"	700	DMI3DSF12334DP1WT
#12 x 4-1/2"	600	DMI3DSF12412DP1WT
#12 x 5"	600	DMI3DSF12500DP1WT
#12 x 6"	300	DMI3DSF12600DP1WT
#12 x 8"	300	DMI3DSF12800DP1WT



## #10-16 WOODZAC™

The WoodZac has over 25 years on the market, and is our most popular longlife fastener (commonly referred to as the 5V screw). The WoodZAC features a long life capped alloy head with a lifetime limited warranty against structural failure due to red rust corrosion on the head of the fastener. Designed for metal to wood applications, features a bonded washer that tucks under the cupped style 5/16 drive ZAC head. The shank has a HiLo Thread, galvanized plating and a TP-17 Cutpoint. Packaged 250/bag.



This is the "Original" WoodZAC which is written into many metal panel manufacturers specifications and approval requirements. Beware of imposters, if it doesn't say ZAC on the head it is not a WoodZAC.



Pull out Substrate	Pull out Ultimate Value #10/#12
2" x 4" Pine	727/874 lbs
1/2" Plywood	324/384 lbs
19/32 OSB	258/458 lbs



Available Sizes	Qty/Box	Part#
#10 x 1"	2,500	DMI2A1066DNF
#10 x 1-1/2"	2,000	DMI2A1071DNF
#10 x 2"	1,500	DMI2A1076DNF
#10 x 2-1/2"	1,000	DMI2A1081DNF
#10 x 3"	1,000	DMI2A1086DNF

## #12-8 WOODZAC™ XG HIGH PULLOUT FASTENER

Features the 5/16" drive long life capped alloy ZAC™ head with a larger #12 sharp point single lead shank designed for higher holding values into OSB substrates. The ZAC head encapsulates a EPDM seal washer. Our suggested long life fastener for 3/4" rib metal roofing panel installation into OSB. Not a replacement fastener !



Available Sizes	Qty/Box	Part#
#12 x 3/4" SP Stitch	2,500	DMI2A1705FLF
#12 x 1"	2,500	DMI2A1807FCF
#12 x 1-1/2"	2,000	DMI2A1842FCF
#12 x 2"	1,500	DMI2A1852FCF
#12 x 2-1/2"	1,000	DMI2A1857FCF
#12 x 3"	1,000	DMI2A1882FCF

## #14 & #17 ZAC™ TAPPER-REPLACEMENT FASTENER

With ZAC lifetime warranty head and extra thick E.P.D.M. seal washer. A high quality replacement fastener, the #14 replaces old nails, #9, #10 and #12 metal to wood screws. The #17 replaces #14 wood and #14 stitch lap fasteners. Metal to wood and metal to light gauge metal applications. 3/8" Hex drive w/cutpoint on #14. TP:AB Packaged 250



Available Sizes	Qty/Box	Part#
#14 x 1"	2,000	DMI2A4395FMF
#14 x 1-1/2"	1,500	DMI2A4485FMF
#14 x 2"	1,000	DMI2A4513FMF
#14 x 2-1/2"	1,000	DMI2A4510FMF
#17 x 1"	1,500	DMI2A8045LFF
#17 x 1-1/2"	1,000	DMI2A8066LFF

## #10 Direct\*Seal ZXL w/M-Bit Woodbinder

The Direct\*Seal ZXL w/M-Bit has a long life Zinc Alloy Cap head (ZAMAC) that encapsulates a EPDM seal washer. This head carries a lifetime warranty against red rust corrosion. This fastener the M-Bit mini drill point which excels in penetrating multi thickness materials. The M-bit is ideal for installations into dimensional lumber such as metal panel attachment in post frame construction. The M-bit may also generate small metal shavings upon installation. It is recommended to clean/ sweep the metal panels after installation to prevent premature rust specks. The ZXL is available in 20 + standard powder coat DMI colors and ships from our Midwest Service Center. ZXL FLA now has a bonded washer to work well with 5V Crimp Panels. 250/bag

Pull out Substrate	Pull out Ultimate Value #10
2" x 4" Pine	713 lbs
1/2" Plywood	368 lbs
7/16 OSB	210 lbs

Available Sizes	Qty/Box	Part#
#10 x 1"	3,000	DMI3ZXL10100
#10 x 1-1/2"	2,500	DMI3ZXL10150
#10 x 1-1/2" FLA	2,500	DMI3ZXLB10150
#10 x 2"	2,000	DMI3ZXL10200
#10 x 2-1/2"	1,500	DMI3ZXL10250
#10 x 3"	1,000	DMI3ZXL10300
#12 x 3/4" Stitch	2,500	DMI3ZXL12075
#12 x 1-1/2"	2,500	DMI12W150TCB0ZS



ZXL FLA



# METAL TO WOOD STAINLESS STEEL CAP HEAD FASTENERS

## #12 WOODZIP S.C.A.M.P. 304 STAINLESS STEEL 5/16" CAP HEAD

Is a premium fastener with more bite perfect for harsh climates and panel systems designed for coastal or high pressure wind zones. The #12 WoodZIP SCAMP incorporates the best features of many of our other fasteners. The #12 S.C.A.M.P. is designed with a 5/16" drive 304 stainless steel cap head with a larger bearing surface to clamp a larger surface of the panel. A larger diameter shank with a HI-LO thread for higher withdrawal resistance than standard #10 fasteners. The pig-tail reducing TP-17 cut-point allows for speedy installation and reduces splitting of wood substrates. The SCAMP has been tested for installation into plywood, OSB, and dimensional pine lumber as well as standard concrete and CMU block substrates. This 304 stainless steel capped head fastener features an EPDM/304 Stainless steel washer designed to tuck under the cap head and free spin on installation eliminating washer spit out.



**Available painted to** complement many metal roofing panel colors. These fasteners are exclusively available in our weather resistant powder coated finish in the colors listed below.

Mill Finish Sizes	Qty/Box	Part#
#12 x 3/4"	2,500	DMI4SSC12034M
#12 x 1"	2,500	DMI4SSC12100M
#12 x 1-1/2"	2,000	DMI4SSC12150M
#12 x 2"	1,500	DMI4SSC12200M
#12 x 2-1/2"	1,000	DMI4SSC12250M
#12 x 4"	1,000	DMI4SSC12400M

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**1-1/2"** Ash Gray 850, Barn Red 691, Bright White 014, Burnished Slate 042, Caribbean Blue 012, Charcoal Gray 051, Cocoa Brown 110, Colony Green 047, Copper Penny 1116, Copper (Flat) 713, Crimson Red 102, Dark Bronze 324, Desert Tan 937, Evergreen 232, Forest Green 228, Gallery Blue 843, Gloss Black 023, Hartford Green 798, Light Stone 248, Matte Black 507, Medium Bronze 537, Old Town Gray 578, Pearl Gray 302, Red 890, Tan 020, Taupe 422, Terracotta 928, Warm White 330, White (Polar) 001, and Zinc Gray 091.

**2-1/2"** Bright White 014, Caribbean Blue 012, Cocoa Brown 110, Copper Penny 1116, Evergreen 232, Forest Green 228, Medium Bronze 537, Red 890, Terracotta 928, White (Polar) 001, and Zinc Gray 091.

**4"** Bright White 014



#12 Pull out Substrate	#12 Pull out Ultimate Value
2"x4" SYP(1")	473 lbs
7/16" OSB	300 lbs
15/32" Plywood	425 lbs
CME Block	841 lbs

## Comparison Testing

#12 WoodZIP SCAMP  
5/16 CHWH 304SS, HI-LO TP-17 Point, MTW  
Shear: 1,900 lbs min.  
Outside thread diameter: 0.232"  
Inside shank diameter: 0.178"

Competitors #12 Wood Screw  
1/4" HWH, SL Sharp Point, MTW  
(also available in 5/16" Zinc Alloy Head)  
Shear: 1,223 lbs min.  
Outside thread diameter: 0.216"  
Inside shank diameter: 0.1363"

WoodZIP SCAMP

Competitor A



30%

Thicker Shank

## #10 WOODZIP S.C.A.M.P. 304 STAINLESS STEEL 1/4" CAP HEAD #10 WOODMAC 304 STAINLESS STEEL 1/4" CAP HEAD

This little devil of a fastener is a true value as it provides the long life head performance of our premium stainless steel fasteners at a lower price point. The SCAMP (stainless cap and milled point) is designed to provide the cut and hold performance of the WoodZIP fastener with the added corrosion protection of a 300 series stainless steel head. The 1/4" drive 304 stainless steel head encapsulates the EPDM seal washer helping to provide a positive seal against the metal panel. The fully coated shank with Hilo thread and TP-17 cut-point allow for speedy installation into wood substrates. The #10 is available as a WoodMAC to be painted in standard DMI colors. Part numbers on the box may vary from below.

SCAMP Sizes	Qty/Box	Part#
#10 x 1"	2,500	DMI4SSC100M
#10 x 1-1/2"	2,500	DMI4SSC150M
#10 x 2"	2,000	DMI4SSC200M
#10 x 2-1/2"	1,000	DMI4SSC250M
#10 x 3"	1,000	DMI4SSC300M
#10 x 3-1/2"	1,000	DMI4SSC350M

WoodMAC	Qty/Box	Part#
#10 x 1"	2,500	DMI2CO168CAF
#10 x 1-1/2"	2,000	DMI2CO268CAF
#10 x 2"	1,500	DMI2CO388CAF
#10 x 3"	1,000	DMI2CO488CAF

#10 Pull out Substrate	#10 Pull out Ultimate Value
2"X SYP(1-1/2")	753 lbs
1/2" Plywood	384 lbs
3/4" Plywood	587 lbs





# FULL STAINLESS STEEL PREMIUM MTW & CORROSION RESISTANT FASTENERS

## FULL 304 STAINLESS STEEL FASTENERS

DMI offers a variety of full 18-8 / 304 stainless steel fasteners designed for a variety of applications including coastal metal roofing installations. Developed for use in high corrosion areas and panel installations with-in 3000 lft of salt water. Pre-drilling pilot holes in the panel to be attached to wood is required on all WoodZipSS, Direct\*Seal SS and stainless steel tapping screws. The high nickel content of 304 stainless steel makes the material too soft to penetrate steel panels but this high nickel content helps provide very high levels of corrosion resistance. Additional labor will be required for installation but those efforts will pay off in an extended corrosion free performance. With the exception of the #9 Bi-Metal which comes with a fused steel tapping point eliminating the need to predrill steel panels.



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**#9-15 WoodZIPSS-A** Designed for the installation of aluminum roofing panels and aluminum liner panels to wood substrates. This fastener comes standard with a full DMG85 silver coating for additional protection from dissimilar metal reactions. This fastener is assembled with a 304SS/EPDM 12mm bonded washer. The WoodZipSS-A is Miami-Dade Counted listed and certified for corrosion resistance and shear strength.



#9-15 w/12mm washer 1/4" Hex Drive

Size	Qty/Box	Part#
1" Bright White 014	2,500	DMI4HSS9100S014
1-1/2" Silver	2,500	DMI4HSS9150SA
1-1/2" Bright White	2,500	DMI4HSS9150S014

**#9-15 WoodZipSS** This fastener is similar to the WoodZIP-SS-A above but without the DMG85 silver coating for additional protection from dissimilar metal reactions. This fastener is assembled with a Aluminum/EPDM 12mm bonded washer and is available to be painted in all of our standard colors.



#9-15 w/12mm washer 1/4" Hex Drive

Size	Qty/Box	Part#
#9 x 1"	3,000	DMI2EO225CKF
#9 x 1-1/2"	2,500	DMI2EO270CKF
#9 x 2"	2,000	DMI2EO272CKF
#9 x 2-1/2"	1,500	DMI2EO275CKF
#9 x 3"	1,000	DMI2EO277CKF

Part # on box may vary on #9-15 parts.

**#9 x 1-1/2" Bimetal Low Profile** Full 304 series stainless steel fastener capable of penetrating metal roofing panels without pre-drilling. Carbon steel fused tip technology allows this fastener to self tap and provide years of corrosion free performance, backed up by a 40 year limited warranty. Low profile T25 drive head provides a pleasing performance, now in stock in 20 colors.



Available Sizes Qty/Box Part#

#9 x 1-1/2" 2,500 DMI21124180(XXX)

Other Sizes available on request

20 colors in stock in the Midwest Service Center.

**#10-15 WoodZipSS** This fastener is similar to the WoodZIP-SS above but with a #10 Hi-Lo thread and TP-17 point. Two different diameter 304SS/EPDM bonded washers are available to suit your application.



#10-15 1/4" Hex Drive

Size / Washer	Qty/Box	Part#
#10 x 1-1/2" 16MM	2,500	DMI4HSS150
#10 x 1-1/2" 3/4" Flat	2,500	DMI4HSS15034

**#10 Direct\*Seal SS Woodbinder** Designed for the installation of steel roofing panels to wood substrates. This fastener has a integral cupped HWH and is assembled with a EPDM seal washer. 20 colors available to be painted.



#10-15 w/seal washer 1/4" Hex Drive

Size	Qty/Box	Part#
1"	3,000	DMI3DSFS100M
1-1/2"	2,500	DMI3DSFS115M
2"	2,000	DMI3DSFS120M

**#14 Stainless Steel Tapping Screws** This type A design is appropriate for replacing old #9 and #10 metal roofing screws in wood substrates. The #14 diameter CUP parts feature an assembled 3/4" larger diameter cupped washer with torque relief properties. This washer is gasketed on the top and the bottom of the washer guard allowing for off angle seating.



Sizes Washer Qty/Box Part#

#14 x 1-1/2" 3/4" CUP	1,000	DMIREPL14150SSA
#14 x 2-1/2" 3/4" CUP	1,000	DMIREPL14250SSA

Sizes Washer Qty/Box Part#

#14 x 2-1/2" 3/4" Flat	1,000	DMI4HHASS1425034
#17 x 1" 3/8" Hex Bd	2,000	DMI2A6041KJF

## #12 ATEAM Hardened Aluminum Fastener

The ATEAM fastener was developed to fill the need for a fastener that would be compatible with screw through Aluminum roofing panels and trim. Also useful in high corrosion environments such as the installation of aluminum liner panels in animal confinement buildings.

- Drilling, tapping and fastening all in one step.
- Select hardened fastener with #1 drilling point to drill and tap 0.032 or 0.040 thickness of aluminum panels.
- This fastener meets Florida Building Code 2017 code version corrosion resistance requirements FBC1506.6 and FBC R902.5.2.
- Assembled with a large EPDM with Aluminum washer guard for proper sealing and better load distribution.
- Requires 5/16" specific driver - non compatible with impact drivers

Pull out	Lbs Ultimate
2x Pine: 481	Shear: 489
1/2" Ply :441	
7/16 OSB: 212	



Available

#12 x 1-1/2" Bright White 014	DMI4A12150014
#12 x 1-1/2" Silver 1161	DMI4A121501161

Other colors available on request , with mini-mums and lead time.

# REPLACEMENT & REPAIR FASTENERS

DIRECT METALS INC.

## S.C.A.M.P. STAINLESS STEEL CAP HEAD REPLACEMENT FASTENER

The SCAMP is a premium quality fastener with a 5/16" Hex drive 304 stainless steel capped head ideal for replacing old worn, rusted or backing out fasteners. E.P.D.M. seal washers help to seal in a flat or angled installation. #12 is popular for the replacement of neo nails, #8 and #9 metal to wood fasteners. The #17 is popular for the replacement of #14 wood screws and #14 stitch lap fasteners. #14 SD is popular for the replacement of #8, #10 and #12 self drilling metal to metal fasteners. The new

Wood Substrate	Qty/Box	Part# 250pcs/bag	Stitch Replacement	Qty/Box	Part#
#12 x 3/4"	2,500	DMI4SSC12034M	#17 x 1" TPA	1,500	DMI1180225
#12 x 1"	2,500	DMI4SSC12100M	3/8" x 1" TPA	1,000	DMI4SSC380100M
#12 x 1-1/2"	2,000	DMI4SSC12150M			
#12 x 2"	1,500	DMI4SSC12200M	SD Replacement	Part#	
#12 x 2-1/2"	1,000	DMI4SSC12250M	#14 x 1-1/4 SD3	DMI4SSCSD314125M	
#12 x 4"	1,000	DMI4SSC12400M	#14 x 1-3/4" SD5	DMI4SSCSD514134M	
			5/16" x 1-1/4" SD3	DMI4SSCSD3516125M	

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Wood Substrate	Qty/Box	Part# 250pcs/bag	S.C.A.M.P. Screw Outside Diameters:
5/16" x 1"	2,000	DMI4SSC516100M	#12 = 0.23", #14 = 0.24", #17 = 0.295"
5/16" x 2"	1,000	DMI4SSC516200M	5/16" = 0.3125" 3/8" = 0.375"

## ZAC™ TAPPER PREMIUM QUALITY REPLACEMENT FASTENER - #14 & #17

The ZAC Tapper is a premium quality fastener ideal for replacing old worn, rusted or backing out fasteners. ZAC lifetime warranty head and extra thick encapsulated E.P.D.M. seal washer help to seal in a flat or angled installation. #14 is popular for the replacement of neo nails, #9, #10 and #12 screws. #17 is popular for the replacement of #14 screws and #14 stitch lap fasteners. Tapping applications include Metal to wood and metal to light gauge metal applications. 3/8" Hex drive on TP:A/AB, 5/16" AFH drive on SD3. All sizes available to be painted to match your panel color on request. Packaged 250 pcs/bag.

### Tapping Screws Applications Type A /AB

Available Sizes	Qty/Box	Part#
#14 x 1"	2,000	DMI2A4395FMF
#14 x 1-1/2"	1,500	DMI2A4485FMF
#14 x 2"	1,000	DMI2A4513FMF
#14 x 2-1/2" SO	1,000	DMI2A4510FMF
#17 x 1"	1,500	DMI2A6045LFF
#17 x 1-1/2"	1,000	DMI2A8066LFF

### Metal Substrate Applications Self Drilling

Available Sizes	Qty/Box	Part#
#14 x 1-1/4" SD3	2,000	DMI2S5211FMF
#14 x 1-1/2" SD2	1,500	DMI2S5287FMF



#17

#14 SD3

## ECONOMY REPLACEMENT FASTENERS TAPPING & SD

Steel fasteners with zinc plating or VistaCoat Silver coating are available as an economical replacement fastener.

#14 WoodGrip Tapper - 5/16" HWH, bd-washer, coated, metal to wood application  
#17 Tapping Screw - 1" = #14 Stitch replacement, HWH, bd-washer coated  
1/4-14 IMPAX - 5/16" HWH #3 drill point for metal to metal applications up to 6GA  
1/4-14 SD LW - 3/8" CHWH #3 drill point with large 1-1/8" Stainless Steel/EPDM washer.

Tapping/MP Sizes	Qty/Box	Part#
#14 x 1"	2,500	DMI2V3321GBF
#14 x 1-1/2"	2,000	DMI2V3438GBF
#14 x 2"	1,500	DMI2V3531GBF
#14 x 2-1/2"	1,000	DMI2A3597GBF
#14 x 3"	1,000	DMI2A3626GBF
#17 x 1" MaxiS	2,500	DMI1063053
#17 x 1-1/2" BS -SE	1,500	DMI2A6060KJ

Self Drill Sizes	Qty/Box	Part#
1/4 x 1-1/4" SD3	2,000	DMI2S5201GBF
1/4 x 1-1/2" SD3	2,000	DMI2S5251GBF
1/4 x 2" SD3	2,000	DMI2S5351GBF

SD Large Washer	Qty/Box	Part#
1/4 x 1-1/4" SD3	2,000	DMI2S5201GBF



#14

#17

#14 SD LW

## 304 STAINLESS STEEL - PREMIUM REPLACEMENT FASTENER #14

The combination of full 304 Stainless Steel with the DMG85 Silver coating and a 3/4" diameter cupped EPDM bonded washer provide the ultimate performance in a replacement fastener. The 3/8" drive HWCH cupped style head that cradles the cupped EPDM washer can be driven at multiple angles and still cover old fastener penetration holes. The #14 is popular for the replacement of neo nails, #9, #10 and #12 screws. Type A is for wood substrate applications and Type B is for metal substrate (predrill can be required for metal substrate, #8 bit) Packaged 250 pcs per bag. Available in mill finish silver color only no painted fastener options.

Wood Substrate Applications (Type A)	Washer Qty/Box	Part#
Sizes		
#14 x 1-1/2" 3/4" TPA	1,000	DMIREPL14150SSA
#14 x 2-1/2" 3/4" TPA	1,000	DMIREPL14250SSA

Steel Substrate Applications (Type B)	Washer Qty/Box	Part#
Sizes		
#14 x 1-1/2" 3/4" TPB	1,000	DMIREPL14150SSB
#14 x 2-1/2" 3/4" TPB	1,000	DMIREPL14250SSB



TPA

TPB



# FASTENER INSTALLATION GUIDE

## Selecting an installation tool:

Use screw guns with torque relief devices. Avoid the use of impact guns and drivers. Impact drivers may damage protective coatings, platings, washers or paint leading to premature corrosion. Always see fastener data sheet for suggested installation practices. As a rule for metal to wood carbon steel and 410 stainless steel fastener use a 2,500 rpm max screw gun. General rule for metal to metal carbon steel and 410 stainless steel fastener use 2,000 rpm max screw gun. General rule for 304, 305 and 316 stainless steel fasteners use 1,000 rpm max screw gun.



**YES**  
Cordless or corded screw guns with depth sensing nose piece.



## Proper seating of washers:

Do not overdrive. (See illustration.)

Metal to Metal Fasteners		Metal to Wood Fasteners	
<b>CORRECT</b> Sealing material slightly visible at edge of metal washer. Assembly is weather tight.			
<b>UNDERDRIVEN</b> Sealing material not compressed. Assembly loose.			
<b>OVERDRIVEN</b> Sealing material extruded beyond edge of washer. Washer deformed.			

Drive fastener perpendicular to surface.

Metal to Metal Fasteners		Metal to Wood Fasteners	
<b>CORRECT</b>	<b>INCORRECT</b>	<b>CORRECT</b>	<b>INCORRECT</b>

## General rules and common mistakes:



- Not all stainless steel fasteners are alike or offer corrosion free performance. Please see DMI guide to stainless fasteners to see the difference between 300 series and 400 stainless steel fastener grades.
- For applications within 3000 lft of salt water, chlorine, or other corrosives use full 304 series stainless steel fasteners.
- For applications into pressure treated lumber use only full 300 series stainless fasteners such as a WoodZip SS or Bi-Metal fastener unless otherwise specified.
- Some panels or substrates may be harder than 300 series stainless steel fasteners, pre-drill of galvanized or galvalume panels must be done in order to avoid thread turn or point burn out.
- When fastening through Aluminum panels pilot holes must be drilled, cleaned and sealed prior to fastener installation. A fastener with full coating over stainless steel (WoodZIP-SS-A) will reduce the risk of dissimilar metal reactions given a moisture free and sealed installation condition.
- When fastening through Polycarbonate, Fiberglass, or PVC, pilot holes must be pre-drilled to allow for panel expansion and contraction. The diameter of the pilot hole must be larger than the fastener shank but smaller than that of the washer diameter.
- Torque fasteners to approx. 70% of torsional strength as washer allows.

## Selecting a drill point for steel substrates:

Most DMI fasteners thread patterns are matched to the drill point size. It is import to select the correct drill point size for your application. If you select an undersized drill point, excessive torque can result in snapped fasteners. If you select an oversized drill point, the thread spacing on the shank may be too fine for your application the fastener may back-out or strip-out.

Drill Point	#1	#2	#3	#4	#5
For steel thickness	0.18" - .095"	.036" - .210"	.036" - .210"	.125" - .250"	.125" - .505"



## SHOWROOM SHELF PACKAGING

We have begun to offer some of our most popular fastener items in convenient plastic pail packaging. These pails are re-sealable and weather resistant. They are convenient for point of sale distribution and in most cases include a driver or required drill bit.

### WoodZIP Wood Screw

Size	Qty/Pail	Pails/Carton	Part#
#10-16 x 1-1/2"	400/Pail	4	DMI4H150MP400
#10-16 x 2-1/2"	250/Pail	4	DMI4H250MP250

(1) 1/4 hex driver is included per pail



### Multi-Purpose Screws

Applications include wood, metal deck, and masonry

Size	Qty/Pail	Pails/Carton	Part#
#12 x 3/4"	400/Pail	4	DMI3DSF12034DP1WT
#12 x 1-1/2"	300/Pail	4	DMI3DSF12150DP1WT
#12 x 2-1/4"	150/Pail	4	DMI3DSF12214DP1WT
#12 x 3-3/4"	700/Pail	1	DMI3DSF12334DP1WT
#12 x 4-1/2"	600/Pail	1	DMI3DSF12412DP1WT
#12 x 5"	600/Pail	1	DMI3DSF12500DP1WT
#12 x 6"	300/Pail	1	DMI3DSF12600DP1WT
#12 x 8"	300/Pail	1	DMI3DSF12800DP1WT



## COLOR CHART

The color chart to the right is representative of our standard color offerings. Colors may vary from actual product due to color variations in the catalog printing process. Actual colored product samples are available on request.



To find a registered DMI distributor call 855-800-8878

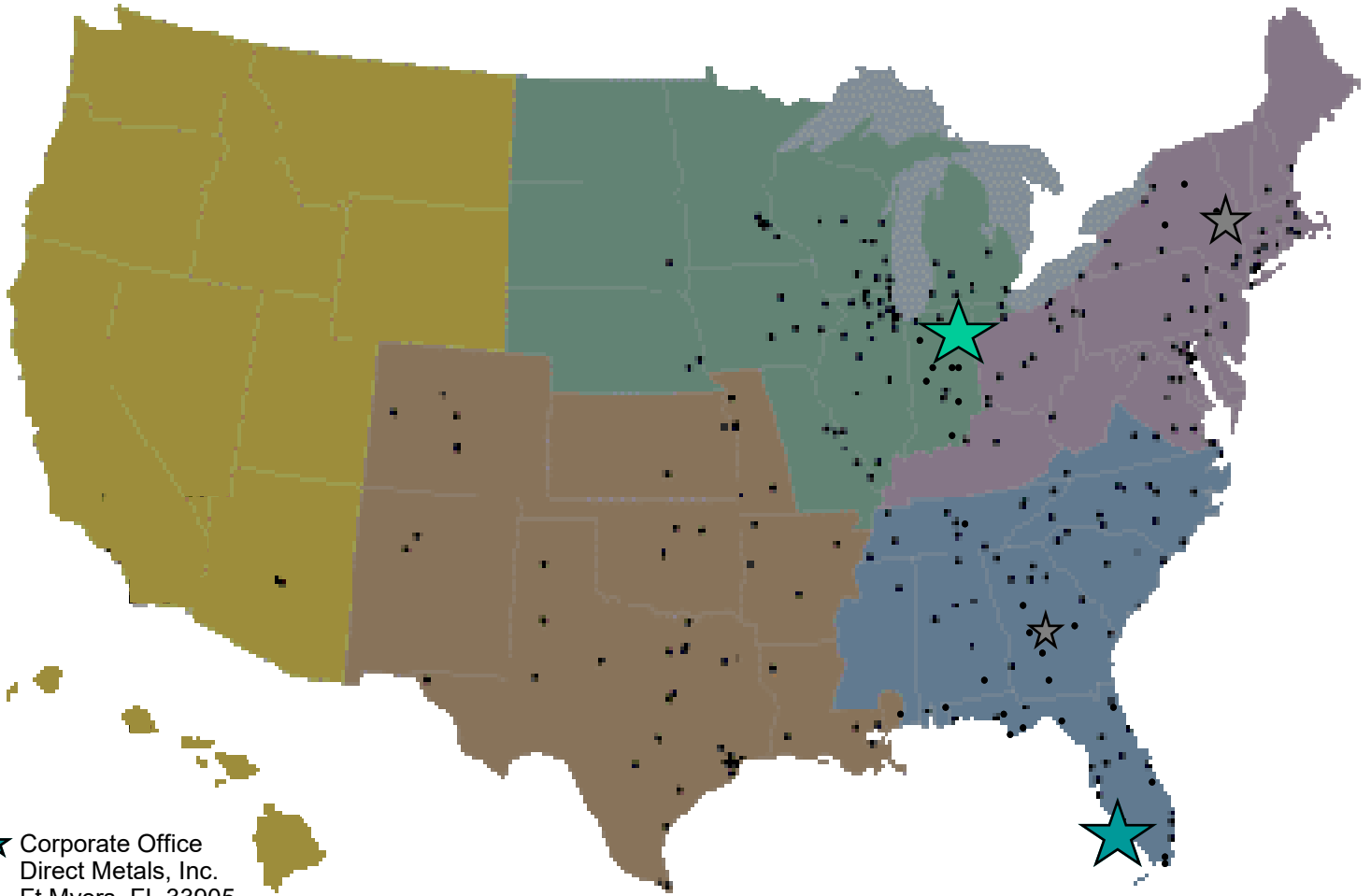
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Toll Free Fax: 855-800-8877  
orders@directmetalsinc.com  
Website: www.directmetalsinc.com

We are proud to have over 1500 distributors across the United States of America. These distributors are serviced through our warehousing locations strategically placed to offer fast service and low shipping cost on our quality products.



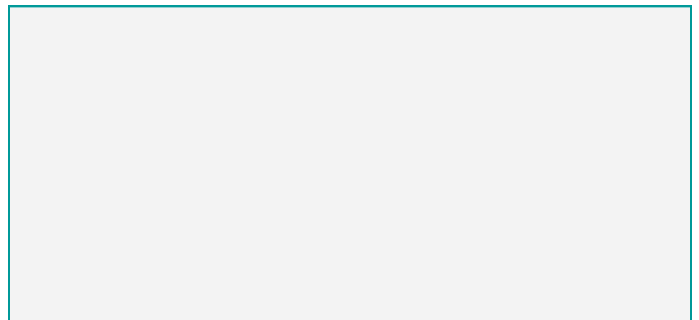
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