

METAL-TO-METAL FASTENERS

# QUIKDRILL™

METAL2METAL | METAL2METAL HD



Value through the Roof.

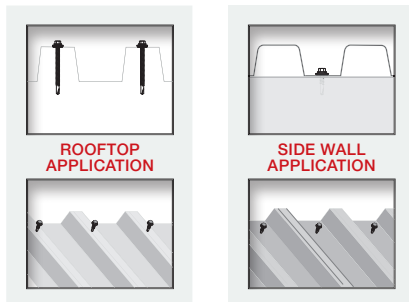
# Reliable Self-Drilling Performance. Superior Marco Value.

Value drives everything we do. That's why our exclusive Weather-Tite™ System includes a full line of dependable QuikDrill™ Metal-To-Metal self-drilling fasteners for attaching metal roofs, sidewalls, and other metal panels with superior Marco performance. In fact, independent lab testing confirms Marco fasteners stand up to salt spray longer than other leading fasteners, giving you peace of mind for years to come.

## QuikDrill Fastener Features

- Higher crown for a better, tighter socket fit and quick installation
- Cupped head and HWH for improved pullover strength
- EPDM washer for a tight, sealed fit, standard
- Drill design that provides quick penetration and prevents point walking
- Durable 1 mil mechanical or 8 micron electroplating delivers exceptional lubricity, wear resistance and excellent durability

## Recommended Installation



## Installation Tips

Always choose the appropriate fastener for the thickness and type of material to be drilled for any given application. To ensure optimum fastening performance, a 1900 to 2500 RPM screw gun rated 6 amps or more and fitted with a properly adjusted depth-locating nosepiece should be used. Sufficient pressure must be applied while screw gun is perpendicular to the working area. Overdriving fasteners can lead to leaks and other problems.



A lobe socket grips the fastener on 6 sides to prevent paint chipping which leads to rust. The nosepiece of the drill needs to be set to the correct height for proper washer installation.



Drive fastener level to metal surface.

The Marco  
Weather-Tite™  
System

Closure

Ventilation

Fasteners

Flashing

Sealants

Underlayment

Accessories

## Going The Extra Mile. That's Value Through The Roof.

At Marco, we built our reputation on quality products and above-and-beyond service. Our specialty fasteners are a good example. To meet customer needs, we carry a variety of specialty fasteners that stand up to our stringent quality standards and performance measures. These include, but are not limited to the following:



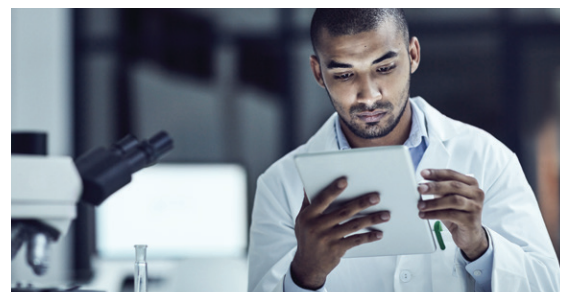
- Zinc Alloy and Stainless Steel capped fasteners used throughout the industry when a 40-year application is desired.



- Marco's P2M, ideal for plywood-to-metal applications where either a #3 or #4 point is required for a clean cut. This winged fastener reams a hole in the wood to prevent the threads from engaging as you drill. When the fastener hits metal, the wings break off and threads engage the metal for a fast application and strong hold.

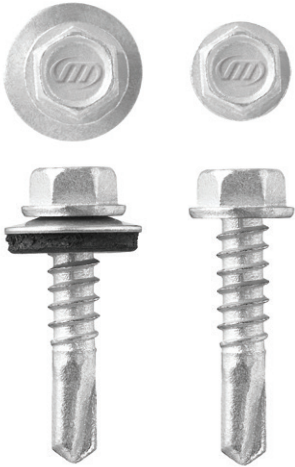
But at Marco, we'll go even further. If you need a different specialty fastener, call us. We'll go out of our way to provide a product that will meet your unique needs and pass our thorough testing and quality reviews. That's what Marco value is all about.

To ensure our superior performance standards are upheld, we subject products to internal and independent testing and quality reviews, often far beyond industry standards. ▶



# QuikDrill Metal2Metal

These self-drilling screws are ideal for light-to-medium gauge metal-to-metal building applications. Our QuikDrill Metal2Metal drill points are designed to penetrate a wide variety of metal thicknesses. QuikDrill #2 and #3 points utilize a chisel flute that speeds up drilling time and eliminates point walking. The #10, #12 and #14 HWH are available with or without a bonded sealing washer.



	Size	Head	Carton Qty	Weight/M
*	10 - 16 x 1/2"	5/16" HWH	10000	5.0
*	10 - 16 x 5/8"	5/16" HWH	10000	5.7
	10 - 16 x 3/4"	5/16" HWH	5000	6.3
	10 - 16 x 1"	5/16" HWH	5000	7.6
	12 - 14 x 3/4"	5/16" HWH	2500	8.4
	12 - 14 x 1"	5/16" HWH	2500	10.0
	12 - 14 x 1-1/4"	5/16" HWH	2500	11.8
	12 - 14 x 1-1/2"	5/16" HWH	2500	13.3
	12 - 14 x 2"	5/16" HWH	2000	16.7
	12 - 14 x 2-1/2"	5/16" HWH	1500	21.4
	12 - 14 x 3"	5/16" HWH	1000	25.0
	12 - 14 x 4"	5/16" HWH	500	30.3
	1/4 - 14 x 7/8" stitch	5/16" HWH	2500	13.0
	14 - 14 x 3/4"	3/8" HWH	2500	12.5
	1/4 - 14 x 1"	3/8" HWH	2500	15.2
	1/4 - 14 x 1-1/4"	3/8" HWH	2000	17.5
	1/4 - 14 x 1-1/2"	3/8" HWH	2000	19.6
	1/4 - 14 x 2"	3/8" HWH	1500	23.8
	1/4 - 14 x 2-1/2"	3/8" HWH	1500	30.0
	1/4 - 14 x 3"	3/8" HWH	1000	33.2
	1/4 - 14 x 4"	3/8" HWH	500	41.9
	1/4 - 14 x 5"	3/8" HWH	500	50.7
	1/4 - 14 x 6"	3/8" HWH	500	53.0
	12 - 14 x 3/4"	5/16" CHWH	2500	11.8
	12 - 14 x 1"	5/16" CHWH	2500	12.5
	12 - 14 x 1-1/4"	5/16" CHWH	2500	14.1
	12 - 14 x 1-1/2"	5/16" CHWH	2000	15.9
	12 - 14 x 2"	5/16" CHWH	1500	21.3
	1/4 - 14 x 7/8" stitch	5/16" CHWH	2500	13.0

*\*Not sold with sealing washer.*

WASHER SIZES		
#10	12mm	OD
#12	14mm	OD
#14	15mm	OD

WASHER SIZE STITCH		
#14	14mm	OD

DRILLING CAPACITY	
10 - 16 #2	.035 - .110
10 - 16 #3	.035 - .176
12 - 24 #2.5	.050 - .210
1/4 - 14 #3	.060 - .220

Point Diameter	Drill Point	Major Diameter	Minor Diameter	Head Across Flat	Washer Face Diameter
#10	#2	.189 / .183	.141 / .135	.312 / .305	.398 / .432
#12	#2.5	.215 / .209	.164 / .157	.312 / .305	.398 / .432
#14	#3	.246 / .240	.192 / .185	.375 / .367	.398 / .432
#1/4" stitch	#1	.246 / .240	.192 / .185	.305 / .312	.398 / .432

**PULL OUT STRENGTH (LBS ULT)**

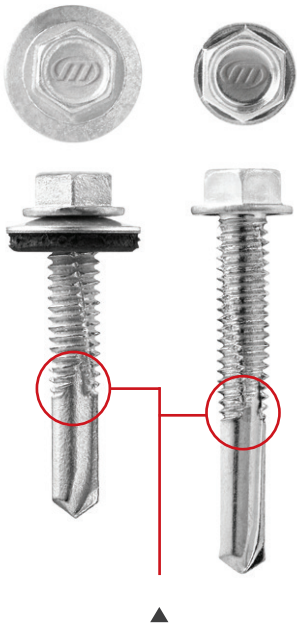
Designation	MATERIAL							
	HRS Primed Only				G-90 Galvanized			
Nom. Gauge	16	14	12	22	18	16	14	12
Thickness	.065	.070	.106	.031	.047	.060	.072	.101
#10	580	922	1405	211	473	680	890	580
#12	423	783	1223	238	438	584	764	1163
1/4"	524	850	1424	218	420	603	742	1221

**PULL OVER STRENGTH (LBS ULT)**

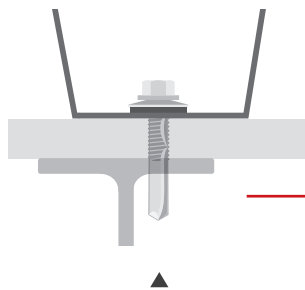
Designation	MATERIAL			
	AZ55 Galvanized			
Nom. Gauge	26	24	22	20
Thickness	.019	.024	.032	.038
#10 with 12mm Washer	800	1167	1144	1688
#12 with 14mm Washer	680	888	1273	1681
1/4" with 15mm Washer	935	1132	1312	2015

# QuikDrill Metal2Metal HD

QuikDrill Metal2Metal Heavy Duty self-drilling fasteners are designed for drilling .250 to .500 steel thickness in heavy gauge applications. Assembled with optional galvanized, bonded EPDM washers, they are ideal for applications including securing metal decks to structural steel, awnings, canopies, bar joists, and retrofit clips. To penetrate steel thickness up to .5", use fastener lengths over 1-1/4". To drill up to .25", choose 12-24 x 7/8".



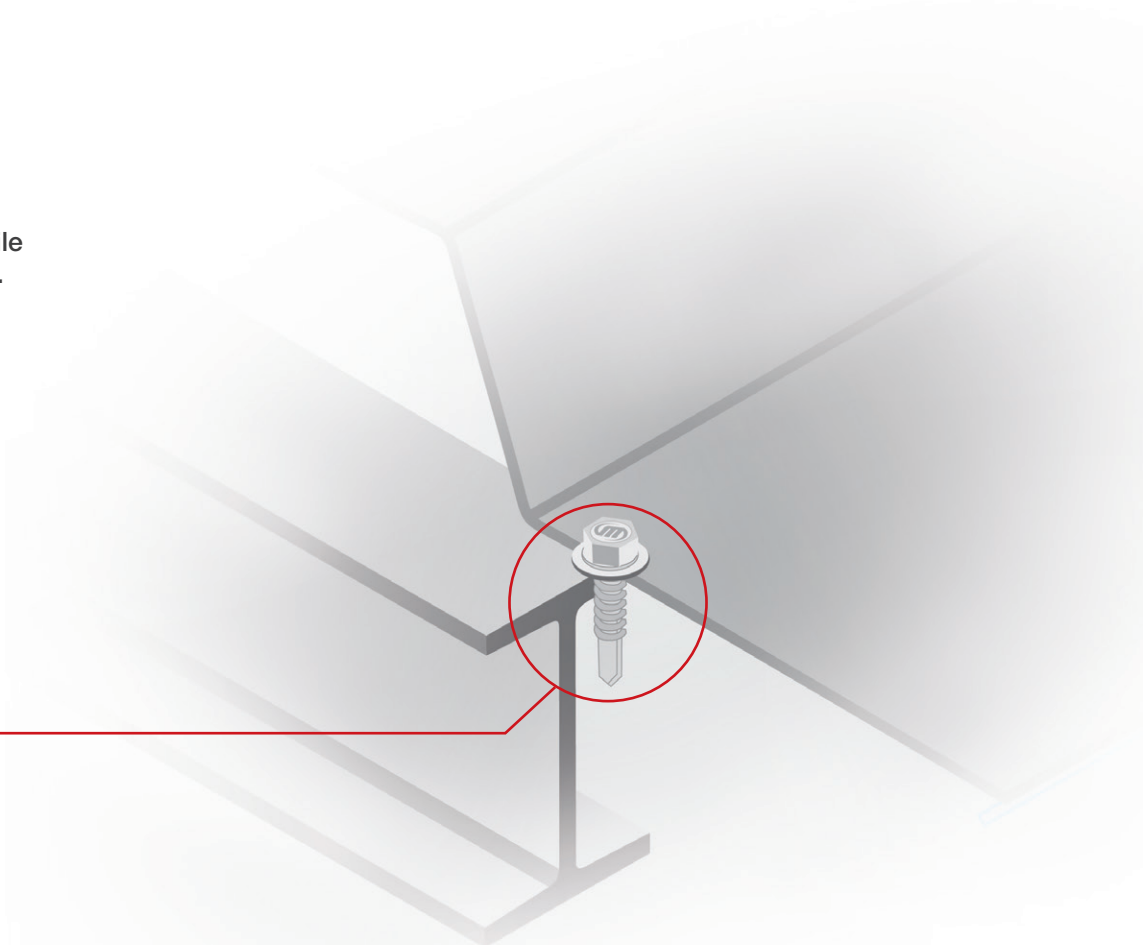
A slotted shank helps the thread cut into substrate, while fluting removes small chips.



**Drilling Capacity**  
#5 .125 - .500

	Size	Head	Drill Point	Carton Qty	Weight/M
*	12 - 24 x 7/8"	5/16" HWH	#4	2500	12.0
	12 - 24 x 1-1/4"	5/16" HWH	#5	2500	12.6
	12 - 24 x 1-1/2"	5/16" HWH	#5	2000	16.2
	12 - 24 x 2"	5/16" HWH	#5	1500	22.1
*	1/4" - 20 x 3"	3/8" HWH	#5	1000	29.5
*	1/4" - 20 x 4"	3/8" HWH	#5	500	36.0
*	1/4" - 20 x 5"	3/8" HWH	#5	500	43.6
*	1/4" - 20 x 6"	3/8" HWH	#5	500	51.9

*\*Note non standard inventory, available upon request.*



**WASHER SIZES**

#12	14mm	OD
#14	15mm	OD

**DRILLING CAPACITY**

#4	.125 - .250
#5	.125 - .500

Diameter	Drill Point	Major Diameter	Minor Diameter	Washer Face DIA
#12 - 24	#4, #5	.215 / .209	.164 REF	.432 / .398
1/4" - 20	#5	.241 / .250	.192 REF	.520 / .480

Diameter	Head Across	Nominal Tensile	Minimum Torsional	Nominal Shear
#12 - 24	.311 / .305	3729 LBS	150 IN-LBS	2542 LBS
1/4" - 20	.375 / .367	4442 LBS	205 IN-LBS	3367 LBS

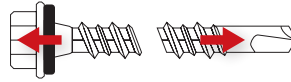
**PULL OUT STRENGTH (LBS ULT)**

MATERIAL				
Designation	HRS Primed Only			
Nom. Gauge	14	12	3/16	1/4
Thickness	.070	.106	.187	.250
#12 - 24 HD	695	1264	2347	3816

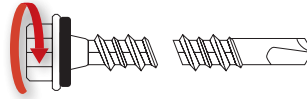
**PULL OVER STRENGTH (LBS ULT)**

MATERIAL			
Designation	AZ55 Galvanized		
Nom. Gauge	26	24	22
Thickness	.019	.024	.032
#12 - 24 HD	755	1164	1304

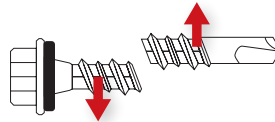
# Fastener Terms



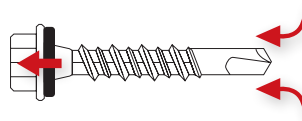
**Tension Strength:** The point at which a fastener fails under a load exerted in two direct and opposite directions. Fastener tension is created when a fastener elongates during tightening, producing the clamp load that prevents movement between joint members. Such movement is arguably the most common cause of structural joint failures.



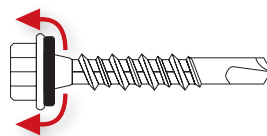
**Torsion Strength:** With Torsion testing, we are able to simulate real life service conditions, check product quality, and ensure proper manufacturing techniques. Torsion tests are performed by applying rotational forces or by applying both compression and rotational forces. Types of torsion testing vary from product to product but can usually be classified as failure, proof, or product operation testing.



**Shear Strength:** Shear is accomplished by exerting shear force (pressure) in the crosswise surface of the fastener until shear failure occurs. Shear force causes the two adjacent portions of the fastener to slide in opposite directions parallel to their contact surface.



**Pullout Performance:** Pullout is the capacity of a fastener's thread connection with a particular medium to remain intact and resist being pulled out of the medium.



**Pullover Performance:** Pullover performance relates to the capacity of a fastener to resist the pulling of the fastened sheet material over the head of the fastener. The resistance to pullover is related to the strength and diameter of the fastener washer as well as the strength and thickness of the metal panel used.

**Visit [MarcoIndustries.com](http://MarcoIndustries.com) to see our Fastener Selection Guide.**



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