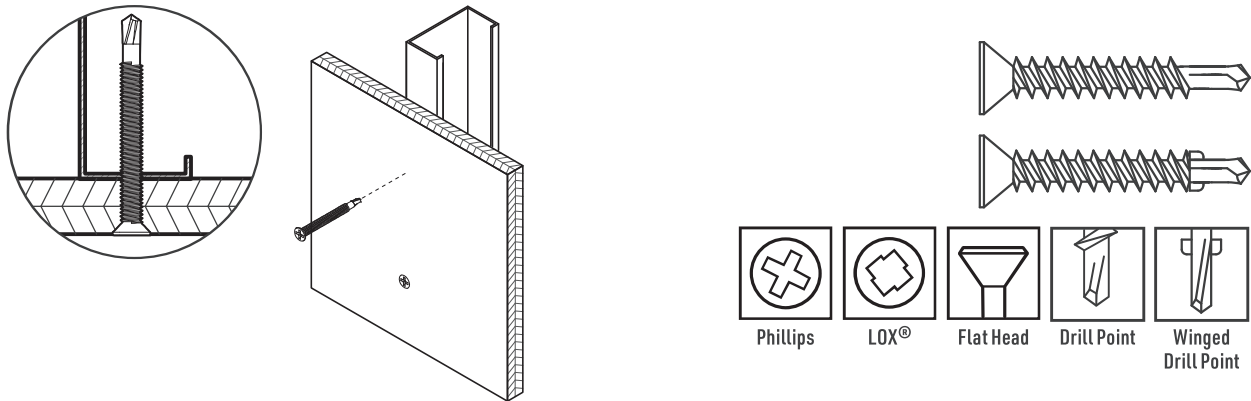


Flat Head Driller - Interior

Wood to Heavy-Gauge Steel



Description Attaches 3/8 in. to 1 1/8 in. wood product to heavy-gauge steel.

Specifications

Size | Gauge: #8 to #14
Length: 1 5/16 in. to 2 3/4 in.
Head Type: Flat Head
Recess Type: #2 Phillips, #3 Phillips, #2 LOX®
Thread Type: Fine
Thread Length: Varies by item. Refer to the thread length reference section for specific dimensions.

Finish: Clear Zinc
Quality Assurance: Grabber® fasteners are manufactured in ISO 9001 and ISO 14001 certified and approved factories.
LEED Reporting: The post-consumer recycled steel content is 25%.
Compliance: The fasteners comply with ASTM C1513 performance requirements.

Applications ■ Attaching plywood or OSB to heavy-gauge steel

Installation

- Use a standard screw gun with a depth-sensitive nose piece. Suggested screw gun specification for optimal performance: sizes #8 and #10, up to 2,500 RPM, sizes #12 and #14, up to 1,800 RPM.
- Because of significantly higher torque output, care and caution should be exercised when using an impact driver; otherwise, screw failure or spin-out may occur.
- The flat head is fully seated when it is flush with the work surface.
- The fastener must penetrate beyond the steel three full thread pitches.
- Overdriving may result in failure of the fastener.

Features

- Grabber's Phillips is a precision recess designed for better bit engagement, resulting in less wobble or strip-out.
- LOX® recess is designed for high-torque applications and will not strip out like most other recesses.
- Self-tapping drill point is designed for penetration into heavy-gauge steel.
- The flat head design provides better holding power in sheathing and wood to heavy-gauge steel applications.
- Special wings clear away wood to create a pilot hole through the plywood or OSB.
- Consistently formed extra-sharp drill point starts and drills easily into heavy-gauge steel framing.
- Available with #3, #3.5, and #4 drill point.

Flat Head Driller - Interior

Wood to Heavy-Gauge Steel



Standard Corrosion Test Results

Finish	Test	Standard/Protocol	Results
Clear Zinc	Salt Spray	ASTM B117	12 hrs., no red rust

Note: Salt Spray Testing (SST) results are not intended to predict corrosion in real-world environments. The ASTM B117 standard for SST is recognized industry-wide as an effective tool for comparing different metals and different metal coatings in a tightly controlled, highly corrosive environment for specific periods of time. For more information about corrosion resistance, see the Grabber Guide to Corrosion Resistance for Fasteners.

Pull-Out Test Data¹

Screw Gauge	TPI ²	Steel Gauge	Design Thickness	Tension	Shear
#8	18	18	0.0451 in.	94 lbs.	244 lbs.
		16	0.0566 in.	171 lbs.	344 lbs.
		14	0.0713 in.	215 lbs.	486 lbs.
		12	0.1017 in.	307 lbs.	827 lbs.
		10	0.1242 in.	375 lbs.	1,114 lbs.
#10	18	18	0.0451 in.	109 lbs.	263 lbs.
		16	0.0566 in.	198 lbs.	370 lbs.
		14	0.0713 in.	249 lbs.	523 lbs.
		12	0.1017 in.	356 lbs.	891 lbs.
		10	0.1242 in.	434 lbs.	1,199 lbs.
#12	24	18	0.0451 in.	124 lbs.	280 lbs.
		16	0.0566 in.	225 lbs.	394 lbs.
		14	0.0713 in.	284 lbs.	557 lbs.
		12	0.1017 in.	405 lbs.	950 lbs.
		10	0.1242 in.	493 lbs.	1,278 lbs.
#14	20	18	0.0451 in.	139 lbs.	297 lbs.
		16	0.0566 in.	252 lbs.	417 lbs.
		14	0.0713 in.	318 lbs.	590 lbs.
		12	0.1017 in.	453 lbs.	1,005 lbs.
		10	0.1242 in.	553 lbs.	1,353 lbs.

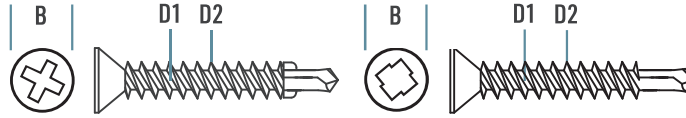
¹Test data values reported are allowable as determined by calculations and industry established test criteria, such as ICC-ES Acceptance Criteria and ASTM test standards. Please contact Grabber for detailed information about testing performed for specific products or if ultimate values are needed.

Sheet Steel Gauges

Gauge No.	Design Thickness	Millimeter Equivalent
25	0.0188 in.	0.4775 mm
20	0.0346 in.	0.8788 mm
18	0.0451 in.	1.1455 mm
16	0.0566 in.	1.4376 mm
14	0.0713 in.	1.8110 mm
12	0.1017 in.	2.5832 mm
10	0.1242 in.	3.1547 mm

Flat Head Driller - Interior

Wood to Heavy-Gauge Steel



Product Dimensions

Screw Gauge	B Head Dia.	Recess	D1 Minor Dia.	D2 Major Dia.	TPI ²
#8	0.313 in.	#2 Phillips	0.116 in.	0.164 in.	18
	0.354 in.	#2 LOX [®]	0.116 in.	0.164 in.	18
#10	0.354 in.	#2 LOX [®]	0.131 in.	0.190 in.	18
#12	0.413 in.	#3 Phillips	0.152 in.	0.216 in.	24
#14	0.476 in.	#3 Phillips	0.164 in.	0.242 in.	20

²TPI stands for Threads Per Inch. This is a count of the number of threads per inch measured along the length of a fastener.

Thread Length: Dimensions vary by item. Consult the thread length reference section at the back of the catalog for item-specific details.

Ordering Information and Product Options

Item No.	Size	Recess	Head Dia.	TPI	Quantity	Weight	Special Features
Clear Zinc							
M175SDZJBW	8 x 1 3/4 in.	#2 LOX [®]	0.354 in.	18	4,000	32 lb.	#3.5 Pilot point
M10178SDZJBW	10 x 1 7/8 in.	#2 LOX [®]	0.354 in.	18	3,000	30 lb.	
12200FW3	12 x 2 in.	#3 Phillips	0.413 in.	24	2,000	34 lb.	#3 Winged drill point
12250FW3	12 x 2 1/2 in.	#3 Phillips	0.413 in.	24	1,500	32 lb.	
12275FW3	12 x 2 3/4 in.	#3 Phillips	0.413 in.	24	1,000	24 lb.	
14275FW3	14 x 2 3/4 in.	#3 Phillips	0.476 in.	20	1,000	31 lb.	
P8516F3	8 x 1 5/16 in.	#2 Phillips	0.313 in.	18	6,000	34 lb.	#3 Pilot point
P81516F3	8 x 1 15/16 in.	#2 Phillips	0.313 in.	18	4,000	33 lb.	
12250F3	12 x 2 1/2 in.	#3 Phillips	0.413 in.	24	1,500	31 lb.	
12200FW4	12 x 2 in.	#3 Phillips	0.413 in.	24	2,000	32 lb.	#4 Winged pilot point
12275FW4	12 x 2 3/4 in.	#3 Phillips	0.413 in.	24	1,000	23 lb.	
CM175SDZJBW	8 x 1 3/4 in.	#2 LOX [®]	0.354 in.	18	1,000	5 lb.	Collated, #3.5 Pilot point
CM10178SDZJBW	10 x 1 7/8 in.	#2 LOX [®]	0.354 in.	18	1,000	5 lb.	

Note: Product availability is subject to change without prior notice and the availability of products may differ from what is printed in literature and displayed on our website. The items listed are bulk size. Most are also available in smaller package sizes such as 5 lb. and 1 lb. Contact your local Grabber Branch or GrabberPro for more information.

Flat Head Driller - Interior
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Grabber Construction Products, Inc.
3125 W. Executive Pkwy., Suite 200
Lehi, UT 84048

(800) 477-8876 | GrabberPro.com

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