

GRABBER[®] CONSTRUCTION PRODUCTS

Product Specification Manual



2015

"The Professional's Choice"[™]

SERVING THE WORLDWIDE CONSTRUCTION INDUSTRY FOR OVER FORTY YEARS

- ▶ Premium Quality Fasteners
- ▶ Innovative Tools, Products, and Building Materials
- ▶ Superior Customer Service

GRABBER Construction Products, Inc., is an international distributor of premium quality fasteners and fastening systems for use in drywall, wood, and steel applications in the commercial and residential construction markets. GRABBER also distributes a large range of proprietary tools, accessories, and building materials to the drywall construction industry.

GRABBER serves these industries from sales and distribution centers throughout the United States and Canada. GRABBER's international market includes Mexico, South America, Europe, Scandinavia, Asia, Australia, New Zealand, and the Middle East.

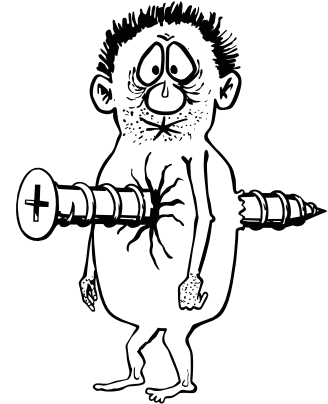
GRABBER® COMMITMENT

1. Treat our customers and vendors with respect
2. Provide consistent value in our products and services
3. Help our customers and vendors build their businesses
4. Bring integrity and ethics to all our business relations



**You want quality.
Look for the GRABBER "G"**

1967 to 2015



Index

STANDARDS AND TESTING

| | |
|---|----|
| Product Manufacturing, Testing and Certification | 5 |
| What are the standards for "corrosion protection"? | 7 |
| Standard Corrosion Test Results | 7 |
| Galvanic Reaction Chart | 8 |
| GRABBERGARD® Screws are compliance | 10 |
| LGSEA Fastener Corrosion TECH NOTE (560-b5) 4/99 | 11 |
| ACQ Compatibility and Corrosion Test Update | 15 |
| Heat-treatment chart for 1018 drywall screws #6 to #8 gauge | 17 |
| LEED Information- GRABBER® Construction Screws | 18 |
| Corrosion Guide Stainless vs GRABBERGARD® | 19 |
| Wire Tensile Strength | 21 |
| Ultimate Values – Fastener Strength Chart | 22 |
| Testing Protocol and Chart | 23 |
| GRABBER® Locations | 24 |

| | | | | | |
|--|---|---|---|---|---|
|  |  |  |  |  |  |
| INTERIOR WOOD | EXTERIOR WOOD | LIGHT GAUGE METAL | HEAVY GAUGE METAL | STAINLESS STEEL | CEMENT BOARD |

INTERIOR WOOD Construction

| PRODUCT | NAME | APPLICATION | PAGE |
|---------|--|---|------|
| 230A | Bugle Head GRABBER® USA | Self tapping fasteners for attaching wood or drywall to wood | 25 |
| 230I | Bugle Head GRABBER® - Interior | Self tapping fasteners for attaching wood or drywall to wood | 27 |
| 232 | Bugle Head GRABBER® Laminator | Self tapping screws for temporarily fastening gypsum to gypsum in laminated drywall construction | 32 |
| 280 | Woodys Flat Head Ribbed Screws, Square Drive | Professional wood screw for interior and exterior applications | 34 |
| 281 | Woodys Flat Head Ribbed Screws, LOX® Drive | LOX® wood screws are perfect for any exterior project, decks, fences, siding, lattice, docks and more | 37 |
| 282 | Subfloor Screws | Professional wood screw for interior and exterior applications | 39 |
| 284 | Pan Head Cabinet Screw | Self tapping screws for cabinet assembly and installation | 41 |
| 285 | Bugle Head Cabinet STREAKER® | For cabinet assembly and installation to metal or wood | 43 |

EXTERIOR WOOD Construction

| PRODUCT | NAME | APPLICATION | PAGE |
|---------|--|--|------|
| 214 | Trim Head STREAKER® | Self tapping screw for attaching wood trim over single or double-layer gypsum board to steel | 45 |
| 230X | Bugle Head GRABBER® | Self tapping fasteners for attaching wood or drywall to wood | 47 |
| 280X | Woodys Flat Head Ribbed Screws, Square Drive with GRABBERGARD® | Professional wood screw for interior and exterior applications | 50 |
| 281 | Woodys Flat Head Ribbed Screws, LOX® Drive | LOX® wood screws are perfect for any exterior project, decks, fences, siding, lattice, docks and more | 52 |
| 281X | Flat Head Ribbed Screws, LOX® Drive | LOX® wood screws are perfect for any exterior project, decks, fences, siding, lattice | 54 |
| 286 | AnyDeck Stainless Steel Composite Screws, LOX® Drive | Designed and engineered to work with all types of composite materials where surface mounted fasteners are recommended. | 56 |
| DM105 | Deckmaster® Deck Board Screws | For fastening Deckmaster® brackets to deck boards | 58 |
| DM110 | Deckmaster® Joist Screws | For fastening Deckmaster® brackets to joists | 60 |

LIGHT GAUGE METAL (25-20ga.)

| PRODUCT | NAME | APPLICATION | PAGE |
|---------|--|--|------|
| 210 | Scavenger® Head Fastener | Fine thread self tapping screws for attaching drywall to light gauge steel | 62 |
| 212 | Bugle Head STREAKER® | Self tapping fasteners for attaching gypsum board to 20 – 25 gauge steel in walls and ceilings | 64 |
| 212A | Bugle Head STREAKER® USA | Self tapping fasteners for attaching gypsum board to 20 – 25 gauge steel in walls and ceilings | 67 |
| 214 | Trim Head STREAKER® | Self tapping screw for attaching wood trim over single or double-layer gypsum board to steel | 69 |
| 216 | Pan Framing Head STREAKER® | Self tapping framing screws for 20 to 25 gauge metal-to-metal applications | 71 |
| 218 | Hex Head STREAKER® | Self tapping framing screws with a Hex washer head for 20 to 25 gauge metal-to-metal applications | 73 |
| 220 | Wafer Head STREAKER® | Self tapping, low profile screws for attaching lath or light gauge metal to 20 to 25 gauge steel studs and framing | 75 |
| 224 | GRABBER® Bugle High/ Low Threaded Screws | Designed for drywall to light metal or wood applications | 77 |

HEAVY GAUGE METAL (18ga. and thicker)

| PRODUCT | NAME | APPLICATION | PAGE |
|---------|---|--|------|
| 222 | Flat Head STABBER® | Self tapping screws for attaching plywood or OSB to steel studs/track | 81 |
| 238 | GRABBER® Flat Head "Eagle" Winged Driller #3 Point LOX® Drive | Fasteners used in the screwing of the wood-deck or plywood/OSB subflooring panels. | 83 |
| 240 | Bugle Head DRIVALL® | Self drilling screws used to attach drywall to heavy gauge metal 14-20 gauge. | 85 |
| 240S | Scavenger® Head DRIVALL® Self Drilling | Self drilling screws for attaching gypsum board to 14 – 20 gauge steel | 88 |
| 242 | Trim Head DRIVALL® Self Drilling | Self drilling screws for attaching wood trim over gypsum board to 14 – 20 gauge steel | 91 |
| 244 | Pan Framing Head DRIVALL® Self Drilling | Self drilling screws for attaching fixtures, backup plates, and door frames to 14 – 20 gauge steel, or any other heavy gauge metal-to-metal applications | 93 |
| 246 | Hex Head DRIVALL® | Self Drilling Self drilling screws for attaching fixtures, backup plates, and door frames to 12 – 20 gauge structural studs, metal decks, and trusses | 95 |
| 248 | Wafer Head DRIVALL® Self Drilling | Self drilling screws for lath or heavy gauge metal-to-metal applications | 98 |
| 250 | Flat Head DRIVALL® Pilot Point Self Drilling | Self drilling fastener for attaching 3/8" to 1" plywood or wood to 14 – 20 gauge steel | 101 |
| 252 | Thin Wafer Head DRIVALL® Winged | Self drilling screws for attaching plywood to heavy gauge metal | 104 |
| 254 | Flat Head DRIVALL® Winged | Self drilling screws for attaching plywood to heavy gauge metal | 107 |
| 258 | Pan Head DRIVALL® | Self drilling screws for attaching fixtures, backup plates, and door frames to 14 – 20 gauge steel, or any other heavy gauge metal-to-metal applications | 109 |
| 258A | Pan Head DRIVALL® USA | Self drilling screws for attaching fixtures, backup plates, and door frames to 14 – 20 gauge steel, or any other heavy gauge metal-to-metal applications | 111 |
| 260 | Flat Pan Head DRIVALL® | Self drilling #3 Point screws for framing 14 – 20 gauge steel to steel | 113 |
| 266 | GRABBER® XteK® Metal to Wood Screws, LOX® Drive | Designed specifically for the application of wood to steel framing members. | 116 |

STAINLESS STEEL Fasteners

| PRODUCT | NAME | APPLICATION | PAGE |
|---------|--|--|------|
| 214SS | Trim Head 304 Stainless Steel STREAKER® | Self tapping screw for attaching wood trim over single or double-layer gypsum board to steel | 118 |
| 230SS | Bugle Head GRABBER® Stainless Steel | Self tapping stainless steel fasteners for attaching wood or drywall to wood | 120 |
| 283SS | LOX® Stainless Steel 316 Wood Screws | Featuring LOX® advanced driver system engineered for high-torque applications. LOX® grabs hard and sinks even harder, giving you positive joint reliability with predictable results every time. | 122 |
| 286 | AnyDeck Stainless Steel Composite Screws, LOX® | Designed and engineered to work with all types of composite materials where surface mounted fasteners are recommended | 124 |
| 330 | Flat Head Coarse, 316 Stainless T-17 Point, LOX® | Stainless steel LOX® wood screws for any Exterior Project, Decks, fences, Siding, Lattice, Docks & More | 126 |
| 331 | Flat Head Coarse, 304 Stainless, T-17 Point, Sqr Drv | Stainless steel screws for any Exterior Project, Decks, fences, Siding, Lattice, Docks & More | 128 |
| 332 | Flat Head Coarse, 305 Stainless, T-17 Point, LOX® | Stainless steel LOX® wood screws for any Exterior Project, Decks, fences, Siding, Lattice, Docks & More | 130 |
| DM105 | Deckmaster® Deck Board Screws | For fastening Deckmaster® brackets to deck boards | 132 |
| DM110 | Deckmaster® Joist Screws | For fastening Deckmaster® brackets to joists | 134 |

CEMENT BOARD Fasteners

| PRODUCT | NAME | APPLICATION | PAGE |
|---------|------------------------------|---|------|
| 228 | GRABBER® Cement Board Screws | Sharp point wafer head with nibs designed for use with cement board and high density exterior sheathing. | 136 |
| 268 | GRABBER® Cement Board Screws | Self Piercing GRABBER® Cement Board and High Density Sheathing Screws have been specifically designed for use with Cement board and High density exterior sheathing to exterior wood or 20 gauge steel. | 138 |
| 290 | GRABBER® HardiBoard® | Winged Driller Designed for cementitious board such as Hardi, Durock and others. | 140 |
| 333 | Oval Head STREAKER® | | |



PRODUCT MANUFACTURING, TESTING AND CERTIFICATION

All GRABBER® fasteners are manufactured from steel wire conforming to ASTM A 548, Grade 1013 to 1022, and in facilities that are ISO 9002 and ISO 14001 approved and certified. The product test results included in this catalogue were obtained under controlled conditions in independent, certified testing laboratories. The data provided are ultimate average values. Design loads should be calculated by a qualified design professional.

DEFINITIONS

ASTM - American Society of Testing Materials

ICCFS - International Conference of Building Officials

ISO - International Standards Organization

Shear Strength - Measure of the force that when applied at a right angle, will break a fastener.

Pull-out Resistance - Amount of force required to pull a fastener out of a specified thickness of wood or steel.

Ultimate Load - A load that during a controlled test, produced complete failure of the fastener.

Salt Spray Test - A common testing method to determine the corrosion resistance of plating and finishes. Fasteners and materials to be tested are placed in a fog chamber with an atmospheric mixture of water and sodium chloride that is maintained at 100% humidity. Test results are expressed in hours of exposure without evidence of normal corrosion. Tests are conducted in accordance to ASTM B117.

Kesternich Test - A test of the corrosion resistance of materials and fasteners which involves repeated condensation and drying cycles. GRABBER® fasteners submitted for Kesternich tests are maintained at 18° C to 28° C and 75% humidity for 16 hours, after being exposed to a contained sulfur dioxide atmosphere at 40° C and 100% humidity for 8 hours. Test results are expressed in the number of cycles of exposure completed without evidence of normal corrosion.

DESCRIPTIONS

GRABBER® Fasteners - Coarse thread screws with super-sharp points, designed for drywall to wood and wood-to-wood applications.

STREAKER® Fasteners - Self-tapping screws with a unique thread, and a hardened, extra-sharp 23° point that allows direct penetration of 20 to 25 gauge steel.

Winged Fasteners - Used to attach plywood or particle board to 12-16 gauge steel. The wings bore a hole in the wood greater in diameter than the major diameter of the screw. As the point of the fastener enters the metal, the wings are broken off, allowing the fastener to tap into the metal.

Pilot Point - A self drilling screw with an unthreaded portion of the shank between the point and the threads. Designed to attach wood or plywood to 14-20 gauge steel.

DRIVALL® - GRABBER® line of self drilling screws for use with 12-20 gauge steel.

Self Drilling Screws - Fasteners with a point capable of drilling into medium to heavy 12–20 gauge steel. Drill points are classified as #1 through #5, with a #5 point being capable of penetrating thicker gauge metals. GRABBER® manufactures fasteners with #2, #3, and #4 points.

Self Tapping Screws - A fastener that can tap its own threads. All GRABBER® drywall screws are self tapping.

FASTENER POINTS

Auger Point - A knurled thread used to ream out material to reduce driving torque in hard materials.

GRABBER® Point - Coarse thread screws with super-sharp points, designed for wood-to-wood applications.

Pilot Point - A self drilling point with an unthreaded portion of the shank between the point and the threads, designed to attach wood or plywood to medium gauge metal.

Type 17 Point - A screw slotted at the point (shank slotted) to aid in drilling and displacing hard materials.

STREAKER® Point - Piercing sharp pointed gypsum board screw for metal studs. The STREAKER® has an especially sharp point having multiple threads occurring within the other in the body portion of the screw. In the tapered portion of the screw, one of the threads gradually decreases in diameter and fades into the tapered portion of the shank and terminates. The other thread continues on toward the point end, decreases in diameter and fades into the tapered portion of the shank at a point nearer the pointed end of the screw.

Winged Point - Used to attach plywood or particle board to medium or heavy gauge steel. The wings bore a hole in the wood greater in diameter than the major diameter of the screw. As the point of the fastener enters the metal, the wings are broken off, allowing the fastener to tap into metal.

QuickGrab Point - The QuickGrab point is an extra sharp point that helps the screw start faster. GRABBER's exclusive QuickGrab™ point ensures screws start quicker and drive faster.

PRODUCT MANUFACTURING, TESTING AND CERTIFICATION

FASTENER HEADS

Bugle Head - Designed to seat fast and easily into wood or drywall.

Scavenger Head - Designed to eliminate paper burrs in drywall with a secondary ring under the normal Bugle head design. This double head effectively reduces paper burns for a cleaner finish.

Trim Head - Narrow head for finishing applications.

Pan Head - High torque head for metal-to-metal applications.

Wafer Head - Low profile head for wood, lath, and metal-to-metal applications.

Hex Head - High torque head for metal-to-metal applications.

FASTENER DRIVES

Phillips Recess - Standard recess for a pointed, cross-shaped driver.

Square Recess - Four-sided recess.

LOX® Drive - A "stick fit", high torque recess that eliminates the need for a magnetic bit holder.

FASTENER DRIVES

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LOX® Drive - A "stick fit", high torque recess that eliminates the need for a magnetic bit holder.

FINISHES

Yellow Zinc - A yellow/gold plating used on fasteners designed for interior applications when appearance is a concern, such as in cabinet installation.

Gray Phosphate - Common gray colored plating for drywall screws.

Clear Zinc - A silver-colored plating that inhibits rust, usually used on fasteners for lath to steel and steel to steel applications.

GRABBERGARD® - A specially formulated plating for corrosion protection on exterior grade fasteners.

WARRANTY

GRABBER® warrants its products conform to GRABBER's published specifications. The user shall determine the suitability of the product for their particular application.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE NOT EXPRESSLY SET FORTH HEREIN.

GRABBER® and any seller's liability for damage hereunder shall not exceed the purchase price of the product. IN NO EVENT SHALL MANUFACTURER OR SELLER BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PRODUCT BY BUYER, BUYER'S USER, OR ANY OTHER PERSON. Notification of any claim must be sent in writing to GRABBER®. The notice should contain a statement as to how the product failed to meet our warranty, the proof of purchase, and the amount of refund claimed.

Ultimate Value Chart

WIRE TENSILE STRENGTH

Subject: WIRE TENSILE STRENGTH TEST REPORT

| GA. # | WIRE DIA. | TENSILE STRENGTH(kg/mm ²) | STRENGTH(kg/mm ²) |
|-------|-----------|---------------------------------------|-------------------------------|
| #6 | 2.7mm | 46.57 | 266.66 |
| | 2.7mm | 46.74 | 267.64 |
| | 2.7mm | 46.06 | 263.72 |
| #6 | 2.8mm | 44.26 | 272.54 |
| | 2.8mm | 49.51 | 304.90 |
| | 2.8mm | 51.58 | 317.64 |
| #8 | 3.2mm | 45.27 | 387.25 |
| | 3.2mm | 46.20 | 371.56 |
| | 3.2mm | 48.15 | 387.25 |
| #8 | 3.3mm | 48.25 | 412.74 |
| | 3.3mm | 48.14 | 411.76 |
| | 3.3mm | 48.94 | 418.62 |
| #10 | 3.8mm | 48.15 | 546.07 |
| | 3.8mm | 47.97 | 544.11 |
| | 3.8mm | 47.80 | 542.15 |
| #12 | 4.4mm | 45.32 | 689.21 |
| | 4.4mm | 50.48 | 767.64 |
| | 4.4mm | 47.64 | 724.50 |
| #12 | 5.1mm | 47.64 | 943.10 |
| | 5.1mm | 46.12 | 942.15 |
| | 5.1mm | 47.35 | 938.25 |

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CORROSION PROTECTION STANDARDS

Question - What are the standards for "corrosion protection"?

Question - When can staining occur?

Corrosion protection is an area of significant consumer confusion. Plating screws to protect the base metal is a difficult science. The concept is simple: typically construction grade screw fasteners are made of carbon steel wire. Carbon wire rusts when exposed to the elements. Corrosion is defined as the "destructive alteration of metal by chemical or electrochemical reaction within its environment, which encompasses not only atmospheric exposure by all interacting conditions associated with the application. The severest form is direct chemical attack, while the electrochemical in nature is slower, but just as damaging." International Fastener Institute.

There are two major way of protecting your fastener from corrosion: 1-choose a metal that is not susceptible to corrosion: gold, platinum, stainless steel. The obvious draw backs are cost and engineering suitability. 2-Coat the base metal to separate it from the corroding chemical or environment.

Coatings are rated by the ASTM B117 salt spray method. Coatings are designed to withstand "x" amount of hour exposure in a controlled testing chamber at 95 degree temperature and a 5% salt spray environment.

GRABBER® provides a full range of fasteners for both interior and exterior use. GRABBER® interior screws are plated with zinc phosphate to meet ASTM specifications of 24-96 hour salt spray for internal use. The United States standard is 24 hour, the German Standard is 48 hours, and the Scandinavian Standard is 96 hours.

GRABBER® exterior grade screws are coated with the proprietary GRABBERGARD® coating (comprised of several layers of zinc coating with a final coating of a chemical composition including: resin, pigment, aluminum powder, and filler. GRABBERGARD® Premium quality exterior screws are manufactured to withstand 1000 hours in the ASTM B117 test environment.

In specific response to your question: can staining occur? Yes, it may occur. The chemicals in the wood itself do at times produce a staining. Painting with an oil based paint will help, as the paint acts as a further sealant against the elements and reduces chance for oxidization. We placed our disclaimer on the box, as it is our experience that a chance for staining is never completely eliminated with a coated fastener.

You could consider a stainless steel screw and better reduce your risk of staining. However, our experience is that while GRABBERGARD® and

Stainless will not corrode and weaken your fastening, staining between the dissimilar materials can and does appear. Your application is a tough one. Fence applications allow for moisture to collect around the screw heads and then gravity works to have the water drip down the face of the board. Any chemical reaction can result in wood discoloration.

GRABBER® is committed to providing industry recognized professional grade fasteners and equally committed to raising consumer awareness relative to application engineering of construction fasteners.

Please call or email with any questions. I appreciate the importance of your decision. We thank you for considering GRABBER® and wish you the best on your upcoming project. You can contact us toll free at 1-800 477-8876.

STANDARD CORROSION TEST RESULTS

| FINISH | TEST | STANDARD RESULTS | PROTOCAOL |
|----------------------|--------------------|------------------|--------------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Dracrotized | Salt Spray Results | ASTM B117 | 500 hours, no red rust |
| GRABBERGARD® | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD® | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |
| 304 Stainless Steel | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| 316 Stainless Steel | Salt Spray Results | ASTM B117 | 1,500 hours, no red rust |

All GRABBER® corrosive coatings listed:

Meet or exceed the corrosion resistance criterion as described in ASTM B633-98. Section 7.4

Type III 12 hours

When testing is performed as outlined in ASTM B117 "practice for operating salt spray (Fog) apparatus"

GALVANIC REACTION CHART

Subject: Aluminum Fastened with ZN or GRABBERGARD® Coated Screws

Below is copy of a galvanic chart ranking the dissimilar metals anodic to cathodic.

The farther apart the metals are from each other on this chart the more severe the galvanic activity, i.e. The contact of Magnesium and Platinum would result in the greatest galvanic action, the contact of tin and lead would result in little galvanic action.

The Cathodic attacks the Anodic. The greater the distance on the chart, the more current generated.

It should be noted that Galvanic action does not always translate into increased or accelerated corrosion, but that if sacrificial plating is incorporated in the fastener design, then galvanic action can accelerate the deterioration of the sacrificial coating. With the close proximity of the Aluminum, (Note that even different grades of Aluminum will generate galvanic action) to zinc we would anticipate mild galvanic activity. We would

advise that the suggested fasteners for this type of application would incorporate our GRABBERGARD® coating which utilizes both barrier and sacrificial coatings to minimize the chance and/or rate of corrosion. The barrier coating used to encapsulate our zinc and anti corrosion chemical bonding agents minimize the opportunity for contact to occur between the iron substrate of the fastener and the materials being fastened.

The rate at which corrosion takes place is determined by:

- ▶ The distance separating the metals on the galvanic series chart
- ▶ The temperature and concentration of the electrolyte. The higher the temperature, the faster it happens. Any stray electrical currents in the electrolyte will increase the corrosion also.
- ▶ The relative size of the metal pieces. A large cross section piece will not be affected as much as a smaller one.

GALVANIC REACTION CHART

G001. GALVANIC CHART

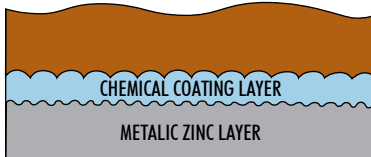
CORRODED END (ANODIC OR LEAST NOBLE)

MAGNESIUM
MAGNESIUM ALLOYS
ZINC
ALUMINUM 5052, 3004, 3003, 1100, 6053
CADMIUM
ALUMINUM 2117, 2017, 2024
MILD STEEL (1018), WROUGHT IRON
CAST IRON, LOW ALLOY HIGH STRENGTH STEEL
CHROME IRON (ACTIVE)
STAINLESS STEEL, 430 SERIES (ACTIVE)
302, 303, 304, 321, 347, 410, 416, STAINLESS STEEL (ACTIVE)
NI - RESIST
316, 317, STAINLESS STEEL (ACTIVE)
CARPENTER 20 CB-3 STAINLESS (ACTIVE)
ALUMINUM BRONZE (CA 687)
HASTELLOY C (ACTIVE) INCONEL 625 (ACTIVE) TITANIUM (ACTIVE)
LEAD - TIN SOLDERS
LEAD
TIN
INCONEL 600 (ACTIVE)
NICKEL (ACTIVE)
60 NI-15 CR (ACTIVE)
80 NI-20 CR (ACTIVE)
HASTELLOY B (ACTIVE)
BRASSES
COPPER (CA102)
MANGANESE BRONZE (CA 675), TIN BRONZE (CA903, 905)
SILICON BRONZE
NICKEL SILVER
COPPER - NICKEL ALLOY 90-10
COPPER - NICKEL ALLOY 80-20
430 STAINLESS STEEL
NICKEL, ALUMINUM, BRONZE (CA 630, 632)
MONEL 400, K500
SILVER SOLDER
NICKEL (PASSIVE)

60 NI- 15 CR (PASSIVE)
INCONEL 600 (PASSIVE)
80 NI- 20 CR (PASSIVE)
CHROME IRON (PASSIVE)
302, 303, 304, 321, 347, STAINLESS STEEL (PASSIVE)
316, 317, STAINLESS STEEL (PASSIVE)
CARPENTER 20 CB-3 STAINLESS (PASSIVE), INCOLOY 825
NICKEL - MOLYBDEUM - CHROMIUM - IRON ALLOY (PASSIVE)
SILVER
TITANIUM (PASS.) HASTELLOY C & C276 (PASSIVE), INCONEL 625(PASS.)
GRAPHITE
ZIRCONIUM
GOLD
PLATINUM
PROTECTED END (CATHODIC OR MOST NOBLE)

GRABBERGARD® Exterior All-Weather Screws

GrabberGard's
UNIQUE FINISH



All GRABBERGARD® Screws are compliant with:



GRABBERGARD® exterior screws provide superior protection from rust and corrosion. GRABBERGARD® withstands destructive elements like salt water, chemicals, acid rain, sunlight and industrial pollutants.

Use GRABBERGARD® screws for:

- ▶ Decks
- ▶ Siding
- ▶ Barns
- ▶ Metal buildings
- ▶ Gutters, downspouts
- ▶ Gazebos
- ▶ Many more exterior applications

Relevant MicroPro information:

MicroPro™ technology offers many benefits including significantly improved corrosion performance. Smart Sense™ pressure treated wood with MicroPro technology exhibits corrosion rates on metal products similar to CCA pressure treated wood and untreated wood.

GRABBERGARD® proves superior in these independent tests:

After 15 cycles of Ksternich testing. . .

GRABBERGARD® GRABBERGARD®



Dacrotize Finish Stainless Steel 410

After 500 hours of salt spray testing. . .

GRABBERGARD®



Yellow Zinc Dicromate

GRABBER Construction Screws go in fast and hold tight. No more popped nails.

Note: Staining may occur when using fresh cut timber including Cedar & Redwood. Exceeds 1000-hour salt spray test under ASTM B117 Method

For Drywall to Pressure Treated

GRABBERGARD® Bugle Head Coarse Exterior Screws include #2 Phillips drive bit tips. Screw sizes available include 6x1, 6x1¼, 6x1 5/8, 7x2, 7x2¼, 8x2½, 8x3, 10x3½, 10x4

For Wood to Pressure Treated

LOX Flat Head and Trim Head Coarse Exterior Screws include free #2 LOX drive bit tips.

Item numbers ending in RG are GRABBERGARD® and are available in a variety of sizes and colors.

Rust Never Sleeps

| PLATINGS & COATINGS CHART | | | | | | | |
|---|--------------|--|---|--|---|--|--|
| PROPERTIES | TYPE | PHOSPATING | ZINC CROMATING | DACROTIZING | HOT DIPPING | GrabberGard® | STAINLESS STEEL |
| | BASE | PHOSPHATE CONVERSION | ELECTROPLATED ZINC | HOT DIPPED ZINC COATING | | ELECTROPLATED ZINC | <p>Superior in composition, stainless steel is a formulation of alloys, not base metal with coatings applied by dipping, electroplating, or peening.</p> <p>These alloy formulations come together to provide specific properties and degrees of corrosion resistance as they relate to screw applications.</p> <p>For example, the 302 to 316 series is a formulation that includes nickel and chromium for superior resistance to common corrosion such as constant water exposure or the high levels of tannic acid in cedar and redwood.</p> <p>(316 is formulated with molybdenum for superior corrosion resistance in areas of high salt water and/or acid rain exposure concentrations.) They are also non-magnetic.</p> <p>410 grade sacrifices a bit of corrosion resistance for strength and is used for self drilling screw applications.</p> |
| | SUPPLEMENT | RUST PREVENTION OIL | Cr6 + (0.2u) | + AlnCr203mCr03 | N/A | CHEMICAL CONVERSION & COATING | |
| SALT SPRAY TEST (ASTM B117) | | 12, 24, 48, 96 Hour | 24, 48, 72, Hour | 120 Hour | 240 Hour | 1000 Hours | |
| KESTERNICH TEST (DIN 50018 SFW02S) | | 2 Cycle | 2 Cycle | 3 Cycle | 5 Cycle | 15 Cycle | |
| HEAT RESISTANCE (JIS K54007.1) | | 150 deg. C X 2H | 70 deg. C X 1H | 250 deg. C X 7H | 250 deg. C X 7H | 250 deg. C X 7H | |
| ACID RESISTANCE (5% HYDROCHLORIC ACID) | | Basic Metal Soluable < 5 Min. | Decoating in Less than 1 Min. | Decoating in Less than 1 Min. | Decoating in Less than 5 Min. | No Change in 24M | |
| ALKALI RESISTANCE (3% SODIUM HYCLORIDE) | | 24H | 24H | 24H | 48H | 72H | |
| WETHERING TEST (JIS K54007.6.17) | | Red Rust in 500H | White Rust in 500H | Decoloring in 500H | White Rust in 500H | No Change in 500H | |
| GALVANIC CORROSION | | Heavy | Heavy | Heavy | Heavy | Least | |
| ADHESION (PULL OF TAPE) | | Weak | Chromate Film is Weak | Weak | Strong | Very Strong | |
| COVERING POWDER | | Red Dust Soon | Acid Apt to Remain Inside Recess | Hard to Coat Inside Recess | Hard to Apply Thin Coat Properly | No Problem | |
| DEFECTS THAT COULD OCCUR TO METAL | | Least | Softens Hardness | Softens Hardness | Softens Hardness | Least | |
| ENVIRONMENTAL CONCERNS | | Need Facilities for Effluent Treatment | Need Facilities for Chromic Acid Waste & Effluent Treatment | Need Device for Exhausting Gases | Need Device for pH Adjustment | No Effluent | |
| REMARKS | | Suitable for Short Term Corrosion Resistance | Extra Chromating Process After Hydrogen Embittlement Prevention Treatment | Unsuitable with Hardened Parts Could Soften Hardness. Stoving is 300 deg. C. Lower Temp. Will be Less Anti-Corrosive | Unsuitable with Hardened Parts Could Soften Hardness. | Backing at 150-200 deg. C Prevents Hydrogen Embittlement | |
| SIMPLIFIED ILLUSTRATION | | | | | | | Chromium, Manganese, |
| | | | | | | GrabberGard® | Molybdenum, Nickel, |
| | OIL | | CHROMATE | | | CHROMATE CHEMICAL CONVERSION | Silicon, Phosphorus, |
| | Zn(Mn) Phos. | | Zn | N Zn nCr203mCr03 | Zn | Zn | Sulphur, |
| | BASIS METAL | | BASIS METAL | BASIS METAL | BASIS METAL | BASIS METAL | Iron, Carbon |



SCREW RUST & CORROSION RESISTANCE

What Really is Corrosion? In laymens terms, corrosion is the deterioration of metal by either chemical or electrochemical reaction with our environment. That includes everything from acid rain, to proximity to salt water, to tannins in wood. Just a few reasons why rust (corrosion) never sleeps!

Electrochemical Reaction - When metals with different electrical potentials contact each other in the presence of an electrolyte (That being fog, dew, humidity, or water.)

Galvanic Corrosion - Occurs with non-compatible metals contact each other in the presence of an electrolyte (water, fog, etc.)

Plating Thickness: The service life of a fastener is usually proportional to the thickness of the plating. Thicker plating, longer life (resistance to corrosion).

Plating Metals - Zinc, Chromate and Aluminium are common. Cadmium is no longer used in the United States because of environmental issues.

What's Plating and Coating? Taking a base metal and depositing a protective metal shell by either electroplating, hot dipping or mechanically depositing metal. (Passivation is a cleaning process for stainless steel by which the fastener is immersed in a nitric acid/ water bath to eliminate foreign matter.)

Electroplating - Current is applied to a water based chemical compound. This "attaches" the chemical to the submerged base metal. Thickness range from commercial grades of .000015 to .00005 inches. Thicker platings are generally economically impractical

Hot Dip Galvanizing - Carbon steel is submerged in a molten zinc "bath" at 959 degrees. Viola! The zinc alloy bonds to the base metal. HDG produces very thick coatings. .0021 is standard. Heavier coatings can be spec'd to .0034

Mechanical Plating - Glass beads, coated with plating material, tumble against base metal and physically "cold weld" plating to base metal. Platings are comparable in thickness to HDG products.

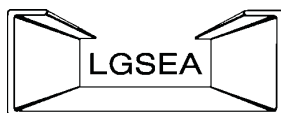
The Real Deal on Stainless Steel
Stainless Steels is a family of ferrous alloys that include iron, carbon, chromium, molybdenum and nickel. (nickel being the most important.) The key to stainless is its ability to form a thin oxide "film" or protective skin on its surface. This film prevents oxidation, and in the right formulations, hold out rust and corrosion far longer.

Austenitic Stainless - The 18-8 and 300 series stainless, Non-heat treatable and non-magnetic, comprised of 18% chromium and 8% nickel. The best for corrosion resistance.

Ferritic Stainless - Magnetic iron - chromium magnetic alloys. Non-heat treatable Used for high temperature applications. Type 430

Martensitic Stainless - Iron-chromium alloys with 12 to 17% chromium. Heat treatable and magnetic. 410 is the least expensive stainless coating and offer more corrosion resistance than zinc and zinc chromates.

For more details on Corrosion, Coatings and Plating and Stainless Steel go to www.grabberman.com or contact your local GRABBER representative.



TECHNICAL NOTE

\$5.00

On Cold-Formed Steel Construction

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FASTENER CORROSION

SUMMARY: Moisture, airborne chemicals and pollutants all can combine to reduce the life of ferrous fasteners through corrosion. This Tech Note examines the corrosion process, available fastener finishes, methods of measuring corrosion and the relative durability of finishes.

Introduction

Light gauge steel construction has many of the same corrosion issues as other types of construction. Is the project in a coastal area subject to salt laden air or in a urban area where acid rain will attack exterior components of the building? How long will the structure be under construction, exposing interior components to the elements prior to the building being enclosed?

There are also unique features of light gauge steel that will impact structures differently than some alternative building materials. The shape of the common steel track section can act as a trough during construction, collecting rain water and morning dew. The type and location of thermal insulation used in the wall system and the relative humidity can result in water vapor condensing within exterior walls. Since steel framing members are inherently straight and true, it is easier to attain quality construction with less air infiltration through walls. This reduced air movement in wall cavities can cause moisture to accumulate, corroding steel studs and fasteners, if protection is not provided.

WHAT IS CORROSION?

Metals are seldom found in their pure state. They are usually found in chemical combinations with one or more nonmetallic elements. Metal corrosion is generally defined as "the undesirable deterioration of a metal or alloy; an interaction of the metal with its environment that adversely affects the properties of the metal." Corrosion of metals is an electrochemical process involving both chemical reactions and the flow of electrons. Protecting metal from corrosion can be accomplished using barrier or cathodic protection.

Barrier protection acts by isolating the metal from its environment. Properties that effect the quality of protection offered include adhesion to the base metal, abrasion resistance and thickness of the coating. Paint

is an example of barrier protection.

Cathodic protection works by adding a sacrificial element to the corrosion circuit. In a galvanic cell, electrical current is generated internally by physical and chemical reactions. The cell, like a simple battery, consists of an anode, a cathode, an electrolyte and a return current path as shown in Figure 1. The anode generates electrons, corrodes, while the cathode receives electrons. The electrolyte is the conductor through which the current is carried and is usually a water solution of acids, bases and salts. The return path is a metallic connection from the anode to the cathode and is often the underlying metal. By introducing an element to the corrosion circuit that is more anodic than the base metal, such as zinc to steel, the zinc will give up electrons to the steel. The zinc is sacrificed while the steel is protected. Any one of the metals shown in Table 1 will theoretically corrode while offering protection to any other which is lower in the series, so long as the two are electrically connected. This explains how galvanized steel studs can be field cut or penetrated by fasteners and not have the exposed steel corrode. The adjacent zinc continues to offer cathodic protection to the steel.

Figure 1

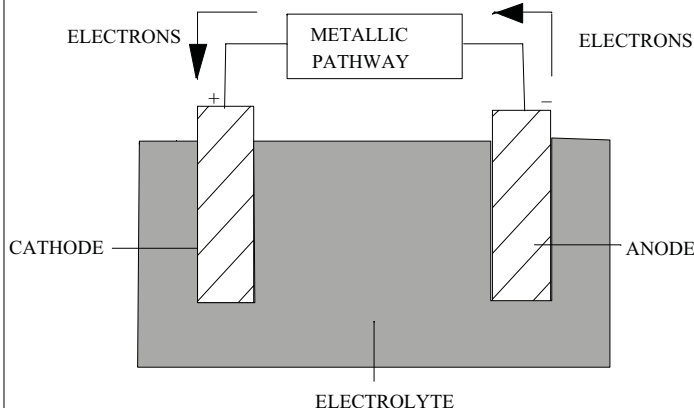


Table 1

**ARRANGEMENT OF METALS
IN GALVANIC SERIES**
CORRODED END - ANODE

Magnesium
 Zinc
 Aluminum
 Cadmium
 Steel
 Tin
 Nickel
 Bronze
 Copper
 Nickel-Copper Alloys
 Stainless Steel
 Gold
 Platinum

PROTECTED END - CATHODE
TYPES OF CORROSION PROTECTION

Fasteners are most commonly protected from corrosion by plating or coating. In addition to corrosion protection, these surface finishes provide lubricity during drilling and tapping of threaded fasteners which can help to reduce the tapping torque required to install them. The major types of finishes are as follows:

Phosphate coating. This black or gray appearing finish is most commonly used on drywall screws. Phosphate is a porous coating, which is usually applied in combination with oil. It is the lowest cost of all fastener finishes and as such, offers only a minimal barrier to corrosion. It is suitable for indoor applications only, where there is minimal chance of exposure to moisture.

Mechanical zinc plating. Powdered zinc is applied to the fastener surface by tumbling the fasteners with water, a chemical catalyst, and glass beads which pound the zinc onto the fastener surface. The thickness of the zinc can range from 0.2 to 3 mils (1 mil = .001 inch = 25.4µm where µm is microns) with increasing thickness of zinc improving the corrosion resistance. The zinc coating remains relatively porous, resulting in a coating with good galvanic protection, but a lesser degree of barrier protection. A chromate sealer can be applied over the zinc for increased barrier protection. This application method cannot uniformly apply zinc to the root diameter of threaded or knurled parts, and thus can provide maximum protection only on smooth fasteners.

Electro-zinc plating. This most common fastener finish offers good galvanic and barrier protection. The steel fasteners are first cleaned in acid to insure satisfactory adhesion of the zinc. The fasteners are then introduced to a solution of zinc and an electrical current is passed through the fasteners.

The fasteners, acting as a cathode, attract zinc from the solution which builds up on the surface of the fasteners. The length of time the fasteners are left in the solution determines the coating thickness which can range from 3 to 25 µm. The most common zinc thickness on fasteners is called commercial grade, which is 3.5 to 5 µm. Clear or yellow chromate is applied as a sealer over the zinc.

There is often confusion concerning the words "galvanized" and "plated" when referring to fastener finish. For fasteners, the term "plated" generally means a zinc coating less than 1 mil thick and "galvanized" refers to a zinc coating greater than 1 mil thick and generally implies application by hot dipping. Table 2 shows the relative thickness of zinc coating on typical building components.

Acid cleaning and the electroplating process cause hydrogen to form on the surface of the steel. Once hydrogen is formed, it is difficult to remove and can lead to hydrogen embrittlement cracking. Of greatest concern is that hydrogen embrittlement failures are typically a delayed failure, occurring months or years after the fastener was installed. The failure occurs because hydrogen atoms migrate through the steel to the point of highest stress. If too much hydrogen is in the part, the hydrogen will build up and eventually cause the steel to crack. The higher the yield strength of the steel and the greater the hardness achieved after heat treating, the more likely hydrogen embrittlement will occur. High strength bolts, powder actuated drive pins and pneumatically driven pins are examples of fasteners with these characteristics.

Hydrogen embrittlement can be minimized by baking the parts after plating. Quality control tests can then be run on the fasteners to insure the possibility of a hydrogen embrittlement failure is reduced.

Table 2

TYPICAL ZINC COATING THICKNESS

| Coating Designation | Thickness (µm) |
|-----------------------------|----------------|
| Commercial Grade (fastener) | 5.0 |
| G40 (stud) | 8.5 |
| G60 (stud) | 12.7 |
| G90 (stud) | 19.4 |

Specialty coatings. These coatings are formulations consisting of proprietary mixtures of phosphate, zinc, chromate, and/or aluminum in combination with a binder material. The coatings may be organic or inorganic and are sold under tradenames such as Aericote®, Climaseal®, and Lifecoat®. Fasteners receive these coatings in a dip spin operation and then go through a bake oven to cure the coating. Coatings offer higher initial corrosion resistance because of greater barrier protection combined with cathodic protection from the zinc ingredient which works to contain the corrosion and

Table 3

GUIDELINES ON CORROSION REQUIREMENTS

"All screws shall be corrosion resistant..." - *Prescriptive Method For Cold Formed Steel Framing*

"Screws shall be given a corrosion-resistant treatment." - *Uniform Building Code Standard for Drill Screws*

"Where corrosion preventative or decorative finishes are required, screws shall be plated or coated as specified by the user." - *SAE J78 standard for Self-Tapping Screws*

prevent its spread through the steel base material. Like plain zinc, the thicker the coating is applied, the greater the corrosion protection offered. Although some coatings are applied over electro-zinc, many are applied directly to alkaline cleaned fasteners. A coating applied in this manner eliminates the possibility of hydrogen embrittlement in even the highest strength fasteners. Although more costly than the previously discussed finishes, these coatings offer the highest level of corrosion protection to ferrous fasteners.

Stainless Steel. This general term is given to alloys of iron, chromium and nickel that have a high resistance to rust. This material does not corrode because as the chrome oxidizes, a protective film is formed over the steel. The high cost of these fasteners generally limits their use to severe applications such as marine environments, highly corrosive industrial locations or the attachment of highly acidic cedar siding.

TEST METHODS

The relative performance of the various corrosion protection methods is determined by standard laboratory testing. While these tests cannot predict installed service life, they are an important part of fastener manufacturer's quality control program and help the fastener specifier understand the relative performance of various coatings.

Salt Spray Test. In this test, fasteners are placed in a sealed cabinet and exposed to an atmospheric mixture of distilled water (H₂O) and 5% sodium chloride (NaCl). One hundred percent relative humidity is maintained in the test cabinet at a temperature of 100° F. The testing is continuous 24 hours per day, all per ASTM standard B-117. Fasteners are periodically inspected for corrosion. The test results are reported as hours of exposure to first appearance of rust.

Mebon Prohesion Test. This test is similar to the Salt Spray Test but utilizes alternating wet and dry cycles of one hour each. The test is meant to more closely simulate long term natural exposure. Researchers believe that the corrosion of iron occurs most rapidly during drying and rewetting episodes, not during the actual wet period. Only a few jurisdictions and manufactures currently utilize this test.

Kesternich Test. This method is much more severe than salt spray testing by simulating the conditions a finish encounters when exposed to a heavy industrial atmosphere. Sulfur dioxide (SO₂) and nitrogen oxide (NO₂) are introduced at a rate of 2 liters per cycle into an atmosphere of 100% humidity within a test chamber. These gases, when combined with water, form sulfurous acid (H₂SO₃) and nitric acid (HNO₃), respectively. One cycle consists of twelve hours wet, with the cabinet closed, and twelve hours dry, with the cabinet open, all per DIN Standard 50018. Results are usually reported as the number of cycles (24 hour periods) the fastener endures with less than 5% red rust. This is the preferred test method for roofing fasteners which are required to meet Factory Mutual Standard 4470.

DURABILITY

Unlike many building components for which the designer can look to codes or industry standards for guidance, these sources offer little help with the issue of fastener corrosion. Most codes are very general, requiring fasteners to have a corrosion resistant treatment with no further detail. Excerpts from three standards are shown in Table 3.

A better guide for the specifier may be found in the results of long range testing that has been conducted by ASTM and other organizations to determine the corrosion behavior of zinc coatings. The service life of zinc coating is a function of its thickness and the type of environment to which it is exposed. Table 4 is based on the results of worldwide

Table 4

SERVICE LIFE OF ELECTRODEPOSITED ZINC

| Atmosphere | Mean Corrosion Rate |
|--------------------------------|--------------------------|
| Industrial | 5.6 µm/year |
| Urban non-industrial or marine | 1.5 µm/year |
| Suburban | 1.3 µm/year |
| Rural | 0.8 µm/year |
| Indoors | less than 0.5µm per year |

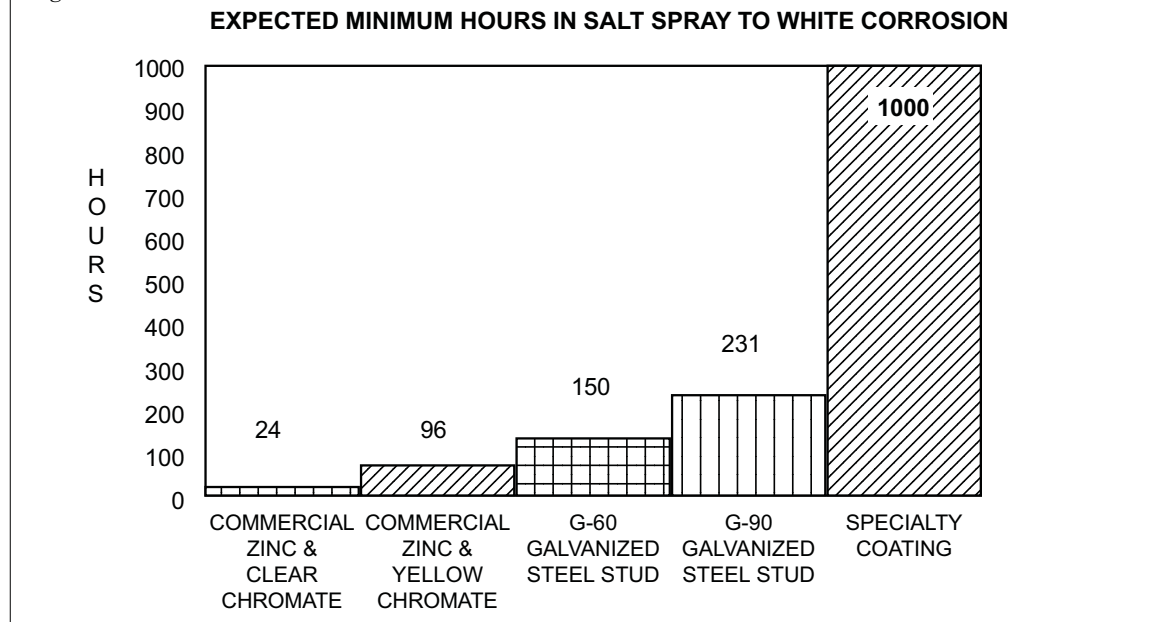
testing and compares the behavior of electrodeposited zinc in various atmospheres. These values are only relative, since individual studies in various parts of the world have provided results that vary widely from these averages.

While field studies have been done on zinc coated fasteners, this data does not allow comparison of different types of coatings. For fasteners, the most widely used guide for rating and selecting coatings is the relative performance

in salt spray testing. Although this test is not an indication of field life, it does give the specifier knowledge of how a finish compares to other types of finishes. Typical values of salt spray corrosion resistance are shown in Figure 2.

When specifying fasteners, consider the field conditions, relative level of finish performance desired and contact the manufacture for specific test information on their fasteners.

Figure 2



References

1. ASTM B201 Standard Practice for Testing Chromate Coatings on Zinc and Cadmium Surfaces, American Society for Testing Materials.
2. ASTM 633 Standard Specification for Electrodeposited Coating of Zinc on Iron and Steel. American Society for Testing Materials.
3. Galvanizing for Corrosion Protection, A Specifiers Guide. American Galvanizers Association, 1995
4. Durability of Coldformed Steel Framing Members. AISI, 1996
5. Atmospheric Corrosion Behavior of Aluminum-Zinc Alloy-Coated Steel, J.C.Zoccola, H.E.Townsend, A.R.Borzillo, and J.B. Horton. ASTM 1978
6. Aerico® is a registered trademark of ET&F Fastening Systems, Inc., Climaseal® is a registered trademark of ITW Buildex and Lifecoat® is a registered trademark of Compass International.

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GRABBERGARD® COATING**ACQ Compatibility and Corrosion Test Update**

January 5, 2005

The Osmose-MSU tests yielded other interesting results. We learned that use of an alloy base, in this case Zinc Nickel (in place of zinc/yellow chromate), significantly improves fastener corrosion resistance — comparable to stainless steel in this test. Zinc Nickel + GRABBERGARD® topcoat showed virtually no corrosion throughout the test and was the next best performer compared to stainless steel.

We also learned that the two variations of ACQ tested, Osmose's ACQ-Type D formulated with DDA chloride quat (labeled "NW-DDAC" in the photos) and ACQ-Type D formulated with DDA carbonate quat (labeled "NW-NT" in the photos) were actually less corrosive than the CCA- treated lumber in the test. It is safe to assume

that Osmose and the other major companies in the wood preservation market are working to make their ACQ chemistry more fastener-friendly. One treatment company recently told GRABBER® that the ACQ-treated lumber we are testing today is indeed less aggressive to steel fasteners than the ACQ-treated lumber we tested two years ago.

While no industry standard corrosion test exists for fasteners in treated lumber (ISANTA/AWPA & ASTM efforts are ongoing), the Osmose-MSU test is a step in the right direction. It gives concerned companies an independently run and controlled test — a means by which we can compare our products to already accepted products



GRABBERGARD®

ACQ Compatibility and Corrosion Test Update

January 5, 2005

The Osmose-MSU test results confirm that GRABBERGARD® is acceptable for use in conjunction with ACQtreated lumber. The positive test results we received from MSU further demonstrate that GRABBERGARD® is a coating system that provides:

An optimum combination of cost-competitiveness and corrosion resistance — better performance than low-cost finishes like HDG and much lower cost than stainless while not sacrificing long-term protection

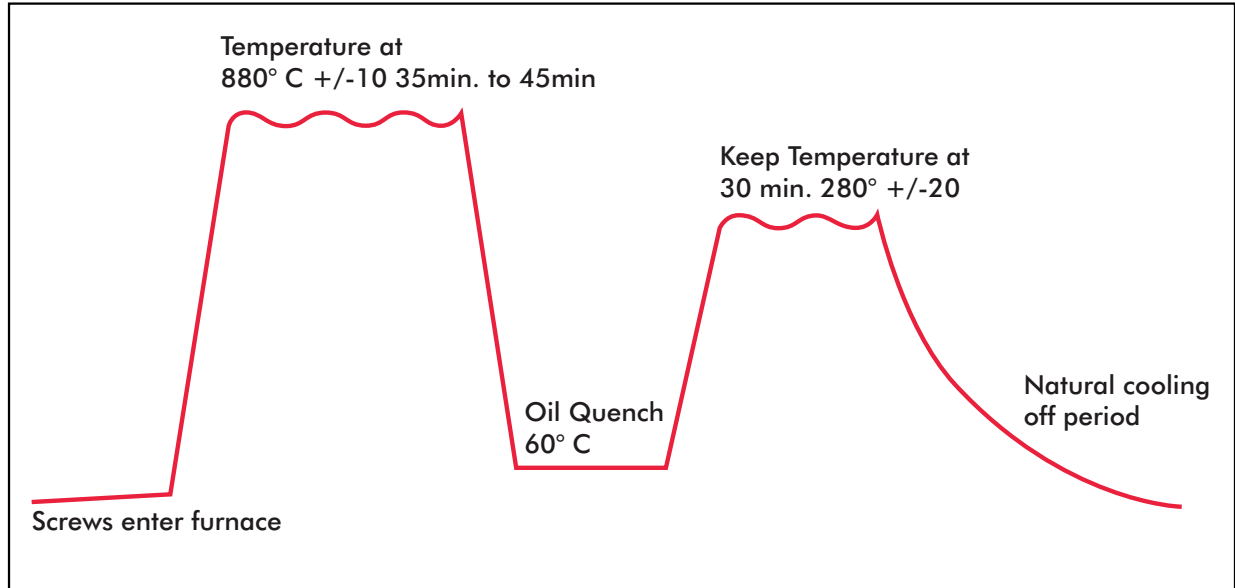
- A wide range of colors — custom color-matching is available if necessary
- Integrated coating lubricity to aid in easy installation
- Finish durability — GRABBERGARD® maintains adhesion to the substrate even after multiple installation/removal cycles
- Worldwide availability from high-quality, cost-conscious metal finishers.

GRABBER® realizes that competition is strong in this market. We have initiated a substantial R & D effort to create the next generation of GRABBERGARD® coatings and it will surely set the standard for performance in years to come. We plan to have more to report on this effort in 2005. Please contact GRABBER® if you need any more information about GRABBERGARD® or any of our other outstanding corrosion protective coating systems.

Heat-Treatment Chart

Heat-treatment chart for 1018 drywall screws #6 to #8 gauge.

Mesh conveyer furnace with Gas carburizing hardening.



Screws will be: Surface hardness = $700\text{Hv} \pm 50$

Core hardness = $380\text{Hv} \pm 50$

In case of Dacrotized Corrosion resistant coatings:

Dacro coating baking temperatures are about 300 to 350°C and maintained for 20-30 minutes. After quenching, screws are tempered in (annealing) furnace temperature at usually $X^{\circ}\text{C}$. In most cases, if baking temperatures are higher than annealing temperatures, screw hardness will go down. Therefore, we have designed a balance between a higher rust proof coating and the hardness priority.

Self Drilling Screw Selection

Steel Metal Gauge

| Normal Gauge | Minimum Thickness (inches) | Mils | Maximum Design (inches) |
|--------------|----------------------------|------|-------------------------|
| 6 | 0.0163 | 16 | 0.0172 |
| 25 | 0.0179 | 18 | 0.0188 |
| 22 | 0.0269 | 27 | 0.0283 |
| 20 | 0.0329 | 33 | 0.0346 |
| 18 | 0.0428 | 43 | 0.0451 |
| 16 | 0.0538 | 54 | 0.0566 |
| 14 | 0.0677 | 68 | 0.0713 |
| 12 | 0.0966 | 97 | 0.1017 |
| 10 | 0.1180 | 118 | 0.1240 |

FOR SI: 1 inch = 25.4mm. 1 mil = 0.0254 mm.

1 - All dimensions are inches or mils, uncoated.

2 - U.S. standard gauge for uncoated hot- and cold-rolled sheets. Gauge numbers are only provided as a reference and should not be used to order, design or specify steel studs or joists.

3 - Minimum thickness of material delivered to the job site.

4 - Design thickness of steel studs / joists shall not exceed the minimum thickness divided by 0.95. Design thickness = Min. thickness / 0.95.

5 - Chart above as noted in ICBO AC 46 acceptance criteria

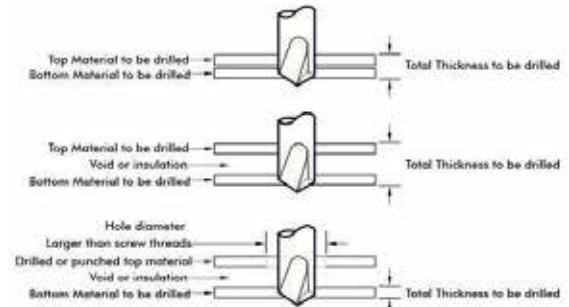
SCREW SIZE

| Normal Size | Basic Screw Diameter | Actual Size |
|-------------|----------------------|-------------|
| 0 | 0.0600 | • |
| 1 | 0.0730 | • |
| 2 | 0.0860 | • |
| 3 | 0.0990 | • |
| 4 | 0.1120 | • |
| 5 | 0.1250 | • |
| 6 | 0.1380 | • |
| 7 | 0.1510 | • |
| 8 | 0.1640 | • |
| 10 | 0.1900 | • |
| 12 | 0.2160 | • |
| 1/4 | 0.2500 | • |
| 5/16 | 0.3125 | • |
| 3/8 | 0.3750 | • |

Where specifying nominal size in decimals, zeros preceding decimal and in the fourth decimal place shall be omitted.

Self-Drilling Screw Selection Guide

Drill Point Selection



Drill Flute

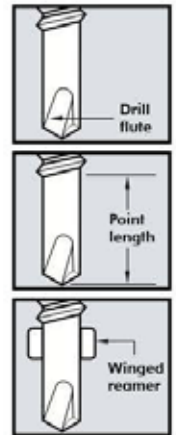
The length of the drill flute determines the metal thickness that can be drilled. The flute itself provides a channel for chip removal during drilling action. If it becomes completely imbedded in material, drill chips will be trapped in the flute and cutting action will cease. This will cause the point to burn up or break.

Point Length

The unthreaded section from the point to the first thread should be long enough to assure the drilling action is complete before the first thread engages the drilled metal. Screw threads advance at a rate of up to ten times faster than the drill flute can remove metal. All drilling therefore should be complete before threads begin to form.

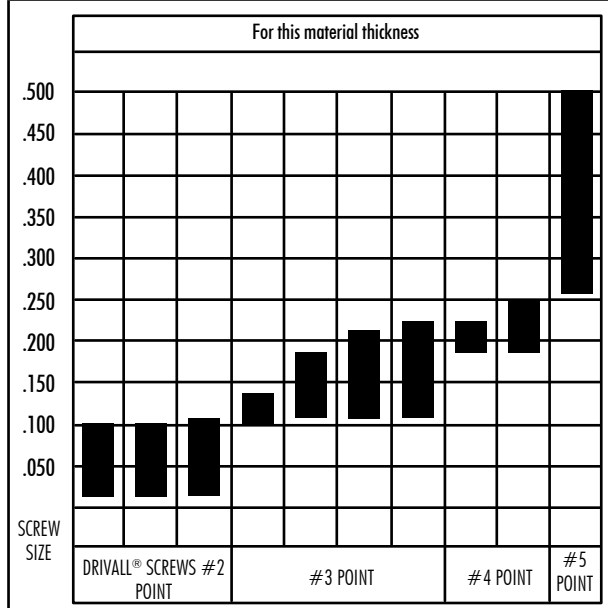
Drilling Through Wood To Metal

If your application calls for drilling through wood over 1/2" in thickness, a clearance hole is required. Select a fastener with break away wings for this type of job. The wings will ream a clearance hole and break-off when in contact with metal surface (minimum metal thickness .090") to be drilled.



Recommendations for Drilling Capacity

Material Thickness Recommendations



NOTE: MEETS OR EXCEEDS SAE J78 - TABLE 9.
 TOTAL THICKNESS OF ALL STEEL INCLUDING ANY SPACING BETWEEN LAYERS

LEED Information- Screws

GRABBER® Construction products (screws) are classified as building materials. As such, fasteners are part of a system. The applicable LEED standards are:

Materials and Resources Fasteners, Screws

4.1 – 4.2 : Recycled Content 0%

% Post Consumer = 100

% Post Industrial = 100

GRABBER® Screw packaging cartons are made of 80% recycled paper and 20% new paper products. Plastic Buckets are re-useable and recyclable

Waste Disposal Methods

Per our MSDS for screws, Section VII, excess screws are recyclable and disposable in accordance with local, state or environmental ordinances.

Local /Regional Materials

Unless specified as "American Made", GRABBER® Screws are not produced locally or regionally.

GRABBER® Construction Products

GRABBER® Headquarters

20 West Main

Alpine, Utah

info@grabberman.com

Phone: 1-800-477-TURN (8876)

April 09

Regarding 304 and 304L stainless steel as compared to GRABBERGARD®.

Salt Spray (ASTM B117)

304 and 316 stainless have been rated @ 2500 hours

304L and 409 stainless have been rated @ 1500 hours

GRABBERGARD® exterior have been rated @ 1000 hours

All 300 Series Stainless screws are non-magnetic.

There is no absolute criterion for converting salt spray to actual exposure conditions. Unless this is a very severe application, i.e. salt water wharf, or exterior applications within 250 yards of shore, we would recommend the GRABBERGARD® over the stainless steel as the most efficient and cost effective solution to an exterior application.

What are Plating and Coating?

Plating and Coating are the deposition of an adherent metal on the surface of a base metal. Fasteners are typically either electroplated, hot dipped, or mechanically deposited on the base metal.

Chemical Conversion Coating: Adherent films chemically formed on a metal surface when immersed in a bath of appropriate solution. Chemical conversion coatings popularly specified for fasteners are chromate treatments on electroplated parts and zinc and phosphate coatings.

Electroplating: is a process where a water based plating chemical compound has an electrical current passed through it which causes the plating to precipitate out and be deposited onto the submerged parts. Process described in ASTM B633 Zinc A165 Cadmium.

GRABBERGARD®: JWA proprietary coating (rated @ 1000 hours (ASTM B117) utilizing electroplating, chemical processing, and exterior coating.

Hot Dip Galvanizing: is accomplished by submerging carbon steel parts for a few minutes in a bath of molten zinc at 950° F (510° C). The result is an iron-zinc alloy at the steel surface and pure zinc gradually changing to pure zinc a fasteners exterior. Process described in ASTM 153.

Hydrogen Embrittlement: Associated with fasteners made of carbon and alloy steels. It is caused by absorption of hydrogen into the fasteners surface during manufacture and processing — particularly during pickling and alkaline cleaning prior to plating. If the hydrogen is not removed by a post baking operation, when stress is applied, the hydrogen gas migrates towards points of highest stress concentration. Pressure builds until the strength of the base metal is exceeded and minute ruptures occur.

Mechanical Plating: metal coating is applied by impacting particles of the plating metal against the parts and cold welding a coating to their surface. Process described in ASTM B695 Zinc and B696 Cadmium.

Passivation: To make inactive or less active the surface of steel by chemical cleaning.

Key Plating Metals: Zinc, cadmium, and aluminum are the most popular for carbon steel fasteners because they are less noble than carbon steels, stainless steel.

Platings: Are the deposition of an adherent metal onto the surface of a base metal. Commercial fasteners (non-aerospace) primarily utilize electroplating, hot dipping or mechanical plating. Plating

Passivation: is a cleaning process in which the fastener is immersed in solution of nitric acid and water to clean stainless steel of foreign matter.

Regarding ASTM B153 and ASTM B633 ASTM Test reference electroplating and hot dipped.

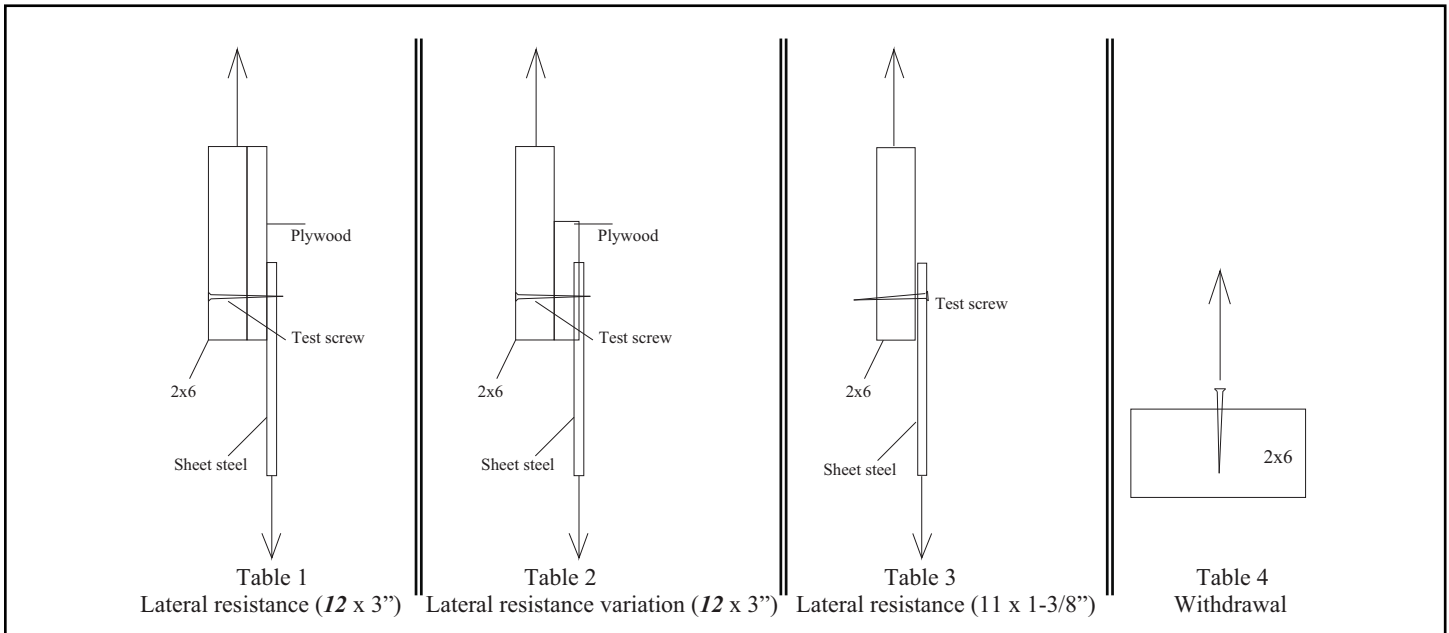
GRABBERGARD® coating is a variation of those criterions. **GRABBERGARD® Screws Meet or Exceed the testing criterion in ASTM 153 and ASTM B633 for corrosion resistance. The common testing criterion for construction fasteners is ASTM B117 as described in hours.**

GRABBERGARD® is an augmented RUSPERT process comprise of Teflon, ceramics and polymers. The process begins with chemical cleaning of the fasteners, then electro-chemistry application of Zinc, then non-chemical pollution cleaning process, baking, then application of first layer of GRABBERGARD® coating (chemical composition: resin polyesters, melamine, epoxy, and silicon, filler, pigment, aluminum powder, xylene, butyl cellosolve, butanol, hydrocarbon solvent, ether solvent, alcoholic solvent, and ceramic additive) baking and second coating of chemical processing, cooling, and then QC. GRABBER® is now requiring 10-12 microns of GRABBERGARD® coating to achieve a 1000hr ASTM B117 test result.

GRABBER® exterior grade screws are coated with the proprietary GRABBERGARD® coating (comprised of several layers of zinc coating with a final coating of a chemical composition including: resin, pigment, aluminum powder, and filler. GRABBERGARD® Premium quality exterior screws are manufactured to withstand 1000 hours in the ASTM B117 test environment.

GRABBER Constructions Products, Inc. Laboratory No.: U317

July 28, 2003 Page 2 of 2

FIGURE 1 TEST SET-UP**PROCEDURES****Lateral Resistance Test**

Each test assembly was secured into the testing machine using a pin and clevis. An axial tensile load was applied at a gradual rate until failure. Simultaneous values of load and differential movement were recorded. Test results and sample identification are presented in Tables 1 through 3.

Withdrawal Test

The wood section was secured to the bed of the test machine an axial tensile force was applied causing the screw to withdraw. Test results and sample identification are presented in Table 2.

If you have any questions regarding this report please contact the undersigned at 510- 835-3142 ext. 106.

Sincerely,

TESTING ENGINEERING, INC.

Jack A. Snow

Material Science Technician

The results presented in this report relate only to the items tested. This report can only be reproduced in its entirety unless written permission from TEI is obtained.

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858-292-6022

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GRABBER Atlanta

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Capitol Heights, MARYLAND 20743-4917
301-808-5100

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856-662-2525

GRABBER Ohio

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Fairfield, OHIO 45014
513-874-9027

GRABBER Midwest

370 W. Dussel Dr., Suite 5
Maumee, OHIO 43537-1604
419-794-8212

GRABBER Northwest

13011 SE Jennifer St., Ste# 201
Clackamas, OREGON 97015
503-654-5234

GRABBER Memphis

3623 Goodlet Rd., #4
Memphis, TENNESSEE 38118
901-794-1894

GRABBER Texas

10990 Petal Street, Ste 400
Dallas, TEXAS 75238-2487
972-470-9044

GRABBER South Texas

2121 Brittmoore Rd, #1400
Houston, TEXAS 77043-2200
713-545-3918

GRABBER Utah

4690 South 500 West
Murray, UTAH 84123
801-266-4151

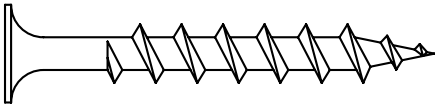
GRABBER Virginia

14801 Willard Rd, Suite 700
Chantilly, VIRGINIA 20151
703-631-8770

INTERIOR WOOD**Product #230A****Bugle Head GRABBER® USA** (1 OF 2)

Attaches gypsum board to wood. Extra sharp point and threads make driving easier and provide better holding power.

Finish - Black/Gray Phosphate



Bugle
Head



GRABBER
Point



#2 Phillips
Drive

**APPLICATIONS**

- ▶ 3/8", 1/2", and 5/8" single-layer gypsum board to wood studs and joists
- ▶ 1/2" and 5/8" double-layer gypsum board to wood studs and joists
- ▶ Insulation to wood
- ▶ OSB or plywood to wood
- ▶ Wood to wood applications

PRODUCT FEATURES

- ▶ Superior holding power and ease of penetration
- ▶ A coarse thread screw for general interior applications
- ▶ 8 threads per inch
- ▶ Extra sharp, single lead 23° GRABBER point, designed to penetrate quickly and easily
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge — #6 to #10
- ▶ Lengths — 1" to 4"
- ▶ Head Type — Bugle
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Single Lead
- ▶ Finish — Gray Phosphate. Also available in Yellow Zinc and GRABBERGARD®
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ For wood to wood connections, minimum penetration should be 7 diameters (e.g. 1-1/4" for #8 fastener)

INTERIOR WOOD
Product #230A
Bugle Head GRABBER® USA (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

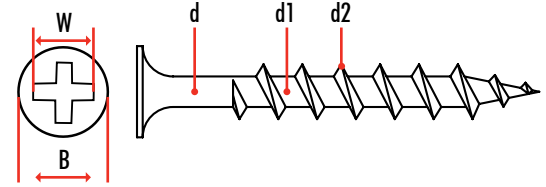
| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 100A | #6x1" | 25 mm | 10 M | 32.00(lbs) |
| 200A | #6x1-1/8" | 28 mm | 10 M | 33.00(lbs) |
| 300A | #6x1-1/4" | 32 mm | 8 M | 32.00(lbs) |
| 400A | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 900A8 | #8x2-1/2" | 63 mm | 2.5 M | 25.00(lbs) |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |



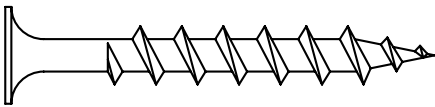
All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



INTERIOR WOOD**Product #230****Bugle Head GRABBER® - Interior** (1 OF 2)

Attaches gypsum board to wood. Extra sharp point and threads make driving easier and provide better holding power.

Finish - Black/Gray Phosphate, Yellow Zinc and Clear Zinc



Bugle
Head



GRABBER
Point



#2 Phillips
Drive

**APPLICATIONS**

- ▶ 3/8", 1/2", and 5/8" single-layer gypsum board to wood studs and joists
- ▶ 1/2" and 5/8" double-layer gypsum board to wood studs and joists
- ▶ Insulation to wood
- ▶ OSB or plywood to wood
- ▶ Wood to wood applications

PRODUCT FEATURES

- ▶ Superior holding power and ease of penetration
- ▶ A coarse thread screw for general interior applications
- ▶ 8 threads per inch
- ▶ Extra sharp, single lead 23° GRABBER point, designed to penetrate quickly and easily
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge — #6 to #10
- ▶ Lengths — 1" to 4"
- ▶ Head Type — Bugle
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Single Lead
- ▶ Finish — Gray Phosphate. Also available in Yellow Zinc and GRABBERGARD®
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ For wood to wood connections, minimum penetration should be 7 diameters (e.g. 1-1/4" for #8 fastener)

INTERIOR WOOD
Product #230
Bugle Head GRABBER® USA (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 100 | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 300 | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 200 | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 400 | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 500 | #7x2" | 51 mm | 3.5 M | 21.00(lbs) |
| 600 | #7x2-1/4" | 57 mm | 3 M | 20.00(lbs) |
| 900 | #8x2-1/2" | 63 mm | 2.5 M | 19.00(lbs) |
| 1100 | #8x3" | 76 mm | 2 M | 21.00(lbs) |
| 1200 | #10x3-1/2" | 89 mm | 1 M | 17.00(lbs) |
| 1300 | #10x4" | 102 mm | 1 M | 20.00(lbs) |

PULL-OUT TEST DATA

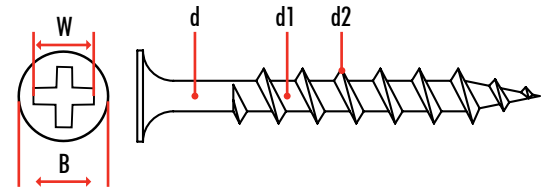
| Screw Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------------|-----------------|-------------|----------------|------------|--------------------|
| #6 | 339 | 309 | 186 | 222 | 224 |
| #7 | 430 | 258 | 291 | 250 | 227 |
| #8 | 528 | 500 | 396 | 246 | 324 |
| #10 | 545 | 320 | 332 | 312 | 255 |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, No Red Rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |



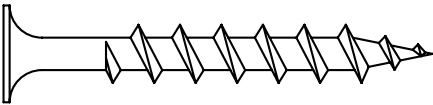
All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



INTERIOR WOOD**Product #2301****Bugle Head GRABBER® - Interior** (1 OF 3)

Attaches gypsum board to wood. Extra sharp point and threads make driving easier and provide better holding power.

Finish - Black/Gray Phosphate, Yellow Zinc and Clear Zinc



Bugle
Head



GRABBER
Point



#2 Phillips
Drive

**APPLICATIONS**

- ▶ 3/8", 1/2", and 5/8" single-layer gypsum board to wood studs and joists
- ▶ 1/2" and 5/8" double-layer gypsum board to wood studs and joists
- ▶ Insulation to wood
- ▶ OSB or plywood to wood
- ▶ Wood to wood applications

PRODUCT FEATURES

- ▶ Superior holding power and ease of penetration
- ▶ A coarse thread screw for general interior applications
- ▶ 8 threads per inch
- ▶ Extra sharp, single lead 23° GRABBER point, designed to penetrate quickly and easily
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge – #6 to #10
- ▶ Lengths – 1" to 4"
- ▶ Head Type – Bugle
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Single Lead
- ▶ Finish – Gray Phosphate. Also available in Yellow Zinc and GRABBERGARD®
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ For wood to wood connections, minimum penetration should be 7 diameters (e.g. 1-1/4" for #8 fastener)

INTERIOR WOOD
Product #230I
Bugle Head GRABBER® - Interior (2 OF 3)

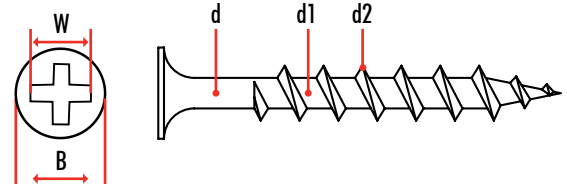
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 100YZ | #6x1" | 25 mm | 10 M | 30.00(lbs) |
| 100Z | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 100 | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 300 | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 300YZ | #6x1-1/4" | 32 mm | 8 M | 33.00(lbs) |
| 300Z | #6x1-1/4" | 32 mm | 8 M | 33.00(lbs) |
| 200Z | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 200 | #6x1-1/8" | 28 mm | 10 M | 30.00(lbs) |
| 400YZ | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 400Z | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 400 | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 500YZ | #7x2" | 51 mm | 3.5 M | 22.00(lbs) |
| 500Z | #7x2" | 51 mm | 3.5 M | 21.00(lbs) |
| 500 | #7x2" | 51 mm | 3.5 M | 21.00(lbs) |
| 600 | #7x2-1/4" | 57 mm | 3 M | 20.00(lbs) |
| 600Z | #7x2-1/4" | 57 mm | 3 M | 20.00(lbs) |
| 900 | #8x2-1/2" | 63 mm | 2.5 M | 19.00(lbs) |
| 900YZ | #8x2-1/2" | 63 mm | 2.5 M | 25.00(lbs) |
| 900Z | #8x2-1/2" | 63 mm | 2.5 M | 25.00(lbs) |
| 1100YZ | #8x3" | 76 mm | 2 M | 22.00(lbs) |
| 1100Z | #8x3" | 76 mm | 2 M | 22.00(lbs) |
| 1100 | #8x3" | 76 mm | 2 M | 21.00(lbs) |
| 1200 | #10x3-1/2" | 89 mm | 1 M | 17.00(lbs) |
| 1300 | #10x4" | 102 mm | 1 M | 20.00(lbs) |
| 1300Z | #10x4" | 102 mm | 1 M | 20.00(lbs) |

*1lb Box, 5lb Box and Collated screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, No Red Rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



INTERIOR WOOD
Product #2301
Bugle Head GRABBER® - Interior (3 OF 3)

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

PULL-OUT TEST DATA

| Screw Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------------|-----------------|-------------|----------------|------------|--------------------|
| #6 | 339 | 309 | 186 | 222 | 224 |
| #7 | 430 | 258 | 291 | 250 | 227 |
| #8 | 528 | 500 | 396 | 246 | 324 |
| #10 | 545 | 320 | 332 | 312 | 255 |

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INTERIOR WOOD**Product #230S****Scavenger® Head GRABBER® - Interior** (1 OF 3)

Attaches gypsum board to wood. Extra sharp point and threads make driving easier and provide better holding power.

Finish - Black/Gray Phosphate



Scavenger
Head



GRABBER
Point



#2 Phillips
Drive

**APPLICATIONS**

- ▶ 3/8", 1/2", and 5/8" single-layer gypsum board to wood studs and joists
- ▶ 1/2" and 5/8" double-layer gypsum board to wood studs and joists
- ▶ Insulation to wood

PRODUCT FEATURES

- ▶ Superior holding power and ease of penetration
- ▶ A coarse thread screw for general interior applications
- ▶ 8 threads per inch
- ▶ Extra sharp, single lead 23° GRABBER point, designed to penetrate quickly and easily
- ▶ #2 Phillips recess drive
- ▶ Unique Scavenger® head is designed to reduce paper burrs

SPECIFICATIONS

- ▶ Gauge — #6 to #10
- ▶ Lengths — 1" to 4"
- ▶ Head Type — Scavenger®
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Single Lead
- ▶ Finish — Gray Phosphate.
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Scavenger® head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

INTERIOR WOOD
Product #230S
Scavenger® Head GRABBER® - Interior (2 OF 3)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 108 | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 308 | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 408 | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 508 | #7x2" | 51 mm | 3.5 M | 21.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

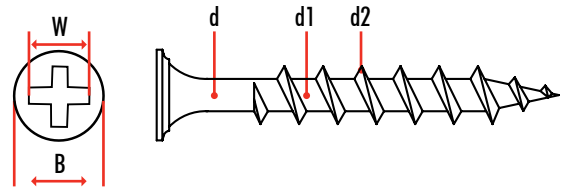
| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|--------------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |

PULL-OUT TEST DATA

| Screw Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------------|-----------------|-------------|----------------|------------|--------------------|
| #6 | 339 | 309 | 186 | 222 | 224 |
| #7 | 430 | 258 | 291 | 250 | 227 |



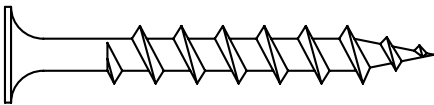
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INTERIOR WOOD**Product #232****Bugle Head GRABBER® Laminator** (1 OF 2)

Laminates gypsum board. Heavy gauge laminator screws are also ideal for wood to wood connection.

Finish - Black/Gray Phosphate and GRABBERGARD®



Bugle
Head



GRABBER
Point



#2 Phillips
Drive

**APPLICATIONS**

- ▶ Multi-layer adhesively laminated gypsum-to-gypsum partitions
- ▶ Coreboard to multiple-layer elevator shaft liners
- ▶ Not recommended for double-layer 3/8" panels

PRODUCT FEATURES

- ▶ A coarse thread screw for temporarily fastening one layer of drywall to another
- ▶ 8 threads per inch
- ▶ Extra sharp, single lead 23° GRABBER® point, designed to penetrate quickly and easily
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge – #6 to #10
- ▶ Length – 1-1/2"
- ▶ Head Type – Bugle
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Single Lead
- ▶ Finish – Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES ER-280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

INTERIOR WOOD
Product #232
Bugle Head GRABBER® Laminator (2 OF 2)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 12RG | #10x1-1/2" | 38 mm | 5 M | 37.00(lbs) |
| 12 | #10x1-1/2" | 38 mm | 5 M | 37.00(lbs) |

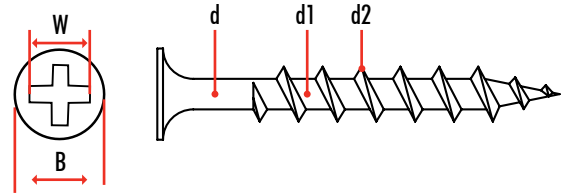
*1lb Box, 5lb Box and Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #10 | 8.50 | 2.87 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 3.30 | | 3.82 | 3.50 | 5.30 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|--------------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, No Red Rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, No Red Rust |



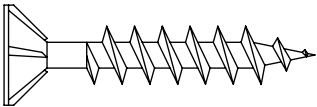
All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



INTERIOR WOOD**Product #280****Woodys Flat Head Ribbed Screws, Square Drive** (1 OF 3)

Flat head screws for interior projects such as cabinets, paneling, furniture, wood framing, stairs, wood trim & more.

Finish - Yellow Zinc and Clear Zinc



Flat Head
With Nibs



GRABBER
Point



#1 Square
Drive

**APPLICATIONS**

- ▶ Outdoor projects such as decks, docks, fences, and gazebos (with GRABBERGARD® finish)
- ▶ Indoor uses with cabinets, counters, furniture, and paneling
- ▶ Any wood-to-wood application

PRODUCT FEATURES

- ▶ A superior, weather and element resistant screw Square recess creates a positive seat for driver
- ▶ 8 TPI design provides increased holding power
- ▶ The flat head is designed specifically for wood applications
- ▶ Ribbed head ensures flush countersinking

SPECIFICATIONS

- ▶ Gauge – #8 and #10
- ▶ Lengths – 1-1/8" to 4"
- ▶ Head Type – Flat
- ▶ Thread Type – Single Lead
- ▶ Recess Type – #2 Square recess
- ▶ Finish – Clear or Yellow Zinc, Gray Phosphate, and GRABBERGARD®
GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

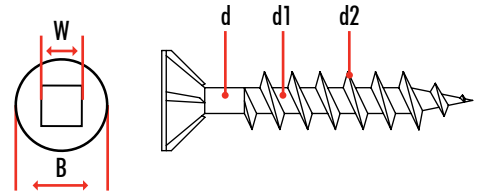
INTERIOR WOOD
Product #280
Woodys Flat Head Ribbed Screws, Square Drive (2 OF 3)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 78100Z | #8x1" | 25 mm | 8 M | 30.00(lbs) |
| 78150YZ | #8x1-1/2" | 38 mm | 5 M | 31.00(lbs) |
| 78150Z | #8x1-1/2" | 38 mm | 5 M | 31.00(lbs) |
| 78125Z | #8x1-1/4" | 32 mm | 6 M | 32.00(lbs) |
| 78118Z | #8x1-1/8" | 28 mm | 6 M | 31.00(lbs) |
| 78175Z | #8x1-3/4" | 45 mm | 4 M | 28.00(lbs) |
| 78200YZ | #8x2" | 51 mm | 3 M | 25.00(lbs) |
| 78200Z | #8x2" | 51 mm | 3 M | 25.00(lbs) |
| 78250YZ | #9x2-1/2" | 63 mm | 2.5 M | 27.00(lbs) |
| 78250Z | #9x2-1/2" | 63 mm | 2.5 M | 27.00(lbs) |
| 78275YZ | #9x2-3/4" | 70 mm | 2 M | 27.00(lbs) |
| 78300YZ | #9x3" | 76 mm | 2 M | 26.00(lbs) |
| 78300Z | #9x3" | 76 mm | 2 M | 26.00(lbs) |
| 78350YZ | #10x3-1/2" | 89 mm | 1 M | 19.00(lbs) |
| 78350Z | #10x3-1/2" | 89 mm | 1 M | 19.00(lbs) |
| 78400Z | #10x4" | 102 mm | 1 M | 21.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, No Red Rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



INTERIOR WOOD
Product #280
Woodys Flat Head Ribbed Screws, Square Drive (3 OF 3)

PULL-OUT TEST DATA

| Screw Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------------|-----------------|-------------|----------------|------------|--------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 7.42 | 1.65 | #2 | 3.18 | 2.70 | 4.30 | 8 |
| | 8.30 | 2.08 | | 3.22 | 3.00 | 4.60 | |
| #10 | 8.64 | 1.65 | #2 | 3.78 | 3.20 | 5.10 | 8 |
| | 9.09 | 2.08 | | 3.82 | 3.50 | 5.50 | |

FASTENER STRENGTH TEST DATA

| Gauge | Bending Yield Strength, psi | Ultimate Tension (pounds) | Allowable Tension (pounds) | Ultimate Shear (pounds) | Allowable Shear (pounds) |
|-------|-----------------------------|---------------------------|----------------------------|-------------------------|--------------------------|
| #8 | 200,000 | 2,125 | 708 | 1,656 | 552 |
| #9 | 195,000 | 2,284 | 761 | 1,691 | 564 |
| #10 | 190,000 | 2,504 | 835 | 2,039 | 680 |

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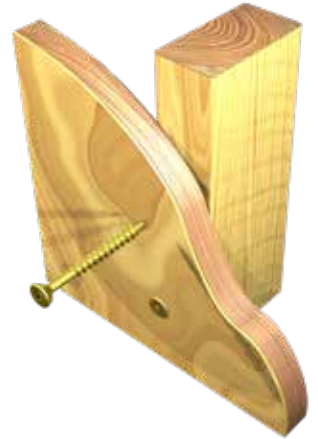
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INTERIOR WOOD**Product #281****Woodys Flat Head Ribbed Screws, LOX Drive** (1 OF 2)

LOX recess flat head screws for interior projects such as cabinets, paneling, furniture, wood framing, stairs, wood trim & more.

Finish - Yellow Zinc



Flat Head
With Nibs



Type 17
Point



LOX #2

APPLICATIONS

- ▶ Outdoor projects such as decks, docks, fences, and gazebos (with GRABBERGARD® finish)
- ▶ Indoor uses with cabinets, counters, furniture, and paneling
- ▶ Any wood-to-wood application

PRODUCT FEATURES

- ▶ A superior, weather and element resistant screw The flat head is designed specifically for wood applications
- ▶ LOX recess drive does not require a magnetic bit tip holder
- ▶ Ribbed head ensures flush countersinking
- ▶ 8 TPI design provides increased holding power

SPECIFICATIONS

- ▶ Gauge — #8 and #10
- ▶ Length — 1-1/2" to 4"
- ▶ Head Type — Flat
- ▶ Recess Type — LOX #2
- ▶ Thread Type — Single Lead
- ▶ Finish — Yellow Zinc, GRABBERGARD®, GRABBERGARD® Brown, GRABBERGARD® Red and GRABBERGARD® Green
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

INTERIOR WOOD
Product #281
Woodys Flat Head Ribbed Screws, LOX Drive (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| W8150YZ | #8x1-1/2" | 38 mm | 2450 | 16.00(lbs) |
| W8175YZ | #8x1-3/4" | 45 mm | 2450 | 18.00(lbs) |
| W8200YZ | #8x2" | 51 mm | 1750 | 15.00(lbs) |
| W9250YZ | #9x2-1/2" | 63 mm | 1750 | 21.00(lbs) |
| W9300YZ | #9x3" | 76 mm | 1750 | 25.00(lbs) |
| W10350YZ | #10x3-1/2" | 89 mm | 700 | 15.00(lbs) |
| W10400YZ | #10x4" | 102 mm | 700 | 16.00(lbs) |

*1lb Box and Deck Pack screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 7.42 | 1.65 | #2 | 3.18 | 2.70 | 4.30 | 8 |
| | 8.30 | 2.08 | | 3.22 | 3.00 | 4.60 | |
| #10 | 8.64 | 1.65 | #2 | 3.78 | 3.20 | 5.10 | 8 |
| | 9.09 | 2.08 | | 3.82 | 3.50 | 5.50 | |

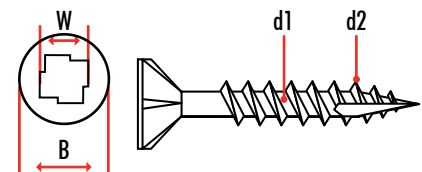
PULL-OUT TEST DATA

| Screw Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------------|-----------------|-------------|----------------|------------|--------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

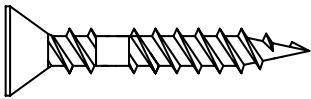
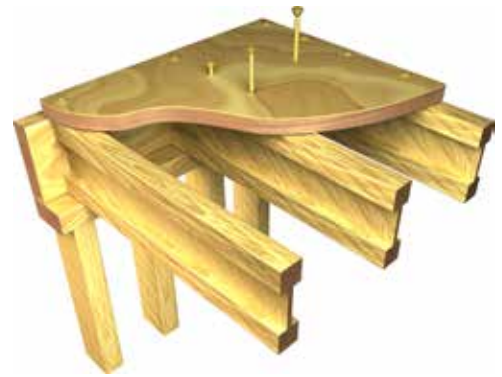
STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|-----------------------|
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, No Red Rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



INTERIOR WOOD**Product #282****Subfloor Screws (collated)** (1 OF 2)**Professional wood screw for interior and exterior applications****Finish - Black/Gray Phosphate and Yellow Zinc**

Flat Head

23° Streaker®
Point

LOX #2



LOX #3

APPLICATIONS

- ▶ Plywood, OSB, and other subfloor materials to wood joists

PRODUCT FEATURES

- ▶ Self tapping STREAKER® point is designed for penetration into wood
- ▶ Flat head provides a flush finished surface LOX® recess does not require a magnetic bit tip holder

SPECIFICATIONS

- ▶ Gauge – #8
- ▶ Lengths – 1-3/4" to 2-1/2"
- ▶ Point – STREAKER®
- ▶ Head Type – Flat
- ▶ Recess – LOX®
- ▶ Thread Type – Double Lead
- ▶ Finish – Gray Phosphate, Clear and Yellow Zinc, and un-plated
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

INTERIOR WOOD
Product #282
Subfloor Screws (collated) (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| C7125UL2 | #7x1-1/4" | 32 mm | 1000 | 5.00(lbs) |
| C8175L3YZ | #8x1-3/4" | 45 mm | 1000 | 9.00(lbs) |
| C8200L3YZ | #8x2" | 51 mm | 1000 | 10.00(lbs) |
| C8250L3YZ | #8x2-1/2" | 63 mm | 1000 | 12.00(lbs) |
| C8300L3YZ | #8x3" | 76 mm | 1000 | 12.00(lbs) |

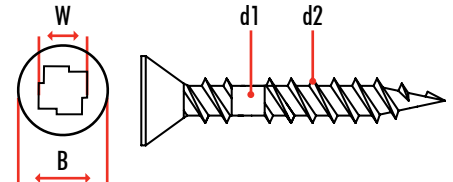
*Available in collated only

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, No Red Rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



INTERIOR WOOD**Product #284****Pan Head Cabinet Screw** (1 OF 2)

Pan head screw used for cabinet assembly and installation. Type 17 point provides easy penetration and minimal expansion of material leaving a smooth flush surface.

Finish - Black/Gray Phosphate



Pan
Head



Type 17
Point



#2 Phillips
Drive



#1 Square
Drive

APPLICATIONS

- ▶ Cabinet assembly and installation
- ▶ Face frame assembly

PRODUCT FEATURES

- ▶ Type 17 point is designed to smoothly penetrate wood without surface cracking
- ▶ Available with #2 Phillips or #2 square recess drives
- ▶ Pan head provides a flat bearing surface into solid material

SPECIFICATIONS

- ▶ Gauge — #6
- ▶ Length — 1-1/4" to 1-1/2"
- ▶ Head Type — Pan
- ▶ Recess Type — #2 Phillips or #2 square
- ▶ Thread Type — Single Lead
- ▶ Finish — Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

INTERIOR WOOD
Product #284
Pan Head Cabinet Screw (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 90 | #6x1-1/2" | 38 mm | 5 M | 24.00(lbs) |
| 902Q | #6x1-1/2" | 38 mm | 5 M | 44.00(lbs) |
| 902Q4 | #6x1-1/4" | 32 mm | 10 M | 24.00(lbs) |
| 90-4 | #6x1-1/8" | 28 mm | 10 M | 44.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 7.14 | 1.75 | #2 | 2.78 | 2.30 | 3.45 | 20 |
| | 7.50 | 2.25 | | 2.82 | 2.43 | 3.53 | |

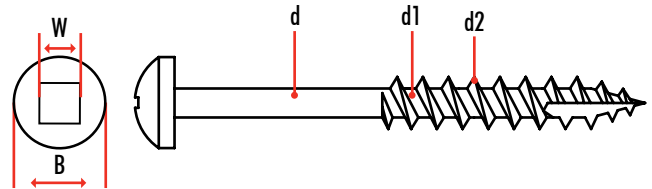
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 20 | 237 | 557 |
| | 25 | 139 | 278 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |



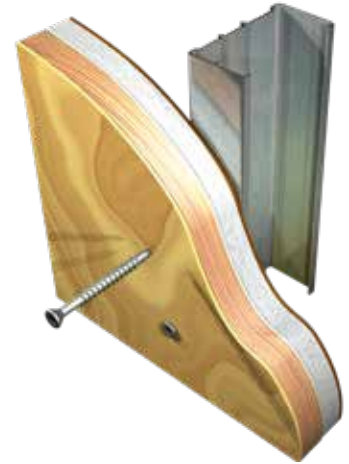
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EXTERIOR WOOD**Product #214****Trim Head STREAKER®** (1 OF 2)

Fine thread, trim head screw for attaching wood trim over single or double-layer gypsum board to steel

Finish - GRABBERGARD®



Trim
Head



23° Streaker®
Point



#1 Square
Drive

APPLICATIONS

- ▶ Wood trim over single and double-layer gypsum board to 20 to 25 gauge steel studs and track
- ▶ Wood trim over single and double-layer gypsum board to wood studs

PRODUCT FEATURES

- ▶ A fine thread screw for finishing applications 15 threads per inch
- ▶ Super sharp, 23° STREAKER® point, designed to penetrate steel quickly and easily
- ▶ #1 square recess drive

SPECIFICATIONS

- ▶ Gauge - #7 and #8
- ▶ Lengths — 1-5/8" to 3"
- ▶ Head Type — Trim
- ▶ Recess Type — #1 square
- ▶ Thread Type — Double Lead
- ▶ Finish — Gray Phosphate, Clear Zinc, GRABBERGARD®
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Trim head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

EXTERIOR WOOD
Product #214
Trim Head STREAKER® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 17SRG | #7x1-5/8" | 41 mm | 10 M | 49.00(lbs) |
| 18SRG | #7x2-1/4" | 57 mm | 5 M | 34.00(lbs) |
| 17S76RG | #8x3" | 76 mm | 2 M | 22.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

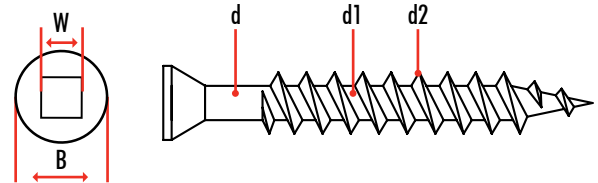
| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #7 | 5.30 | 1.20 | #1 | 2.93 | 2.40 | 3.75 | 15 |
| | 5.80 | 1.50 | | 2.97 | 2.55 | 3.90 | |
| #8 | 5.30 | 1.20 | #1 | 3.18 | 2.80 | 4.00 | 15 |
| | 5.80 | 1.50 | | 3.22 | 3.00 | 4.20 | |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #7 | 20 | 222 | 817 |
| | 25 | 100 | 245 |
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |

SHEET STEEL GAUGES

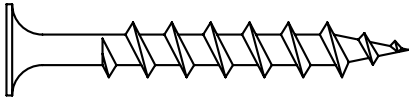
| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |



EXTERIOR WOOD**Product #230X****Bugle Head GRABBER®** (1 OF 3)

Attaches sheathing, insulation board, wood, etc. wood. Standard bugle head. GrabberGard coating provides superior corrosion protection.

Finish - GRABBERGARD®



Bugle
Head



GRABBER
Point



#2 Phillips
Drive

**APPLICATIONS**

- ▶ Wood studs and joists
- ▶ 1/2" and 5/8" double-layer gypsum board to pressure treated wood studs and joists
- ▶ Insulation to pressure treated wood
- ▶ OSB or plywood to pressure treated wood
- ▶ PT

PRODUCT FEATURES

- ▶ Superior holding power and ease of penetration
- ▶ A coarse thread screw for general exterior wood to wood applications
- ▶ 8 threads per inch
- ▶ Extra sharp, single lead 23° GRABBER® point, designed to penetrate quickly and easily
- ▶ Compliant for all types of pressure treated wood applications
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge – #6 to #10
- ▶ Lengths – 1" to 4"
- ▶ Head Type – Bugle
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Single Lead
- ▶ Finish – GRABBERGARD® TM ASTM rated at 1000 hrs
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ For wood to wood connections, minimum penetration should be 7 diameters (e.g. 1-1/4" for #8 fastener)

EXTERIOR WOOD
Product #230X
Bugle Head GRABBER® (2 OF 3)

PRODUCT SIZES AND ORDERING INFORMATION

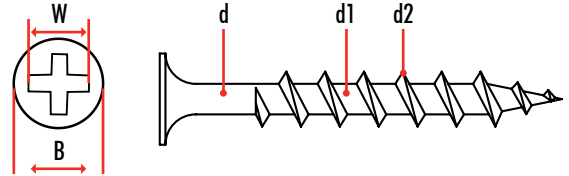
| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 100RG | #6x1" | 25 mm | 10 M | 30.00(lbs) |
| 300RG | #6x1-1/4" | 32 mm | 8 M | 33.00(lbs) |
| 200RG | #6x1-1/8" | 28 mm | 10 M | 33.00(lbs) |
| 400RG | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 500RG | #7x2" | 51 mm | 3.5 M | 21.00(lbs) |
| 600RG | #7x2-1/4" | 57 mm | 3 M | 20.00(lbs) |
| 900RG | #8x2-1/2" | 63 mm | 2.5 M | 25.00(lbs) |
| 1100RG | #8x3" | 76 mm | 2 M | 22.00(lbs) |
| 1200RG | #10x3-1/2" | 89 mm | 1 M | 17.00(lbs) |
| 1300RG | #10x4" | 102 mm | 1 M | 20.00(lbs) |

*1lb Box, 5lb Box and Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



EXTERIOR WOOD
Product #230X
Bugle Head GRABBER (3 OF 3)

PULL-OUT TEST DATA

| Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|--------------------|----------------|-------------------|------------|-----------------------|
| #6 | 339 | 309 | 18 | 222 | 224 |
| #7 | 430 | 258 | 291 | 250 | 227 |
| #8 | 528 | 500 | 396 | 246 | 324 |
| #10 | 545 | 320 | 332 | 312 | 255 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, No Red Rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, No Red Rust |

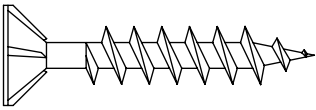
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EXTERIOR WOOD**Product #280X****Woodys Flat Head Ribbed Screws,
Square Drive with GRABBERGARD®** (1 OF 2)

GrabberGard exterior grade coated screws for deck and fence attachment and general exterior wood construction to wood.

Finish - GRABBERGARD



Flat Head
With Nibs



GRABBER
Point



Square
Drive

**APPLICATIONS**

- ▶ Outdoor projects such as decks, docks, fences, and gazebos (with GRABBERGARD® finish)
- ▶ Indoor uses with cabinets, counters, furniture, and paneling
- ▶ Any wood-to-wood application

SPECIFICATIONS

- ▶ Gauge — #8 and #10
- ▶ Lengths — 1-1/8" to 4"
- ▶ Head Type — Flat
- ▶ Thread Type — Single Lead
- ▶ Recess Type — #2 Square recess
- ▶ Finish — Clear or Yellow Zinc, Gray Phosphate, and GRABBERGARD™
GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

PRODUCT FEATURES

- ▶ A superior, weather and element resistant screw
- ▶ Square recess creates a positive seat for driver
- ▶ 8 TPI design provides increased holding power
- ▶ The flat head is designed specifically for wood applications
- ▶ Ribbed head ensures flush countersinking

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

EXTERIOR WOOD
Product #280X
**Woodys Flat Head Ribbed Screws,
 Square Drive with GRABBERGARD®** (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 78150RG | #8x1-1/2" | 38 mm | 5 M | 31.00(lbs) |
| 78175RG | #8x1-3/4" | 45 mm | 4 M | 28.00(lbs) |
| 78200RG | #8x2" | 51 mm | 3 M | 25.00(lbs) |
| 78250RG | #9x2-1/2" | 63 mm | 2.5 M | 27.00(lbs) |
| 78275RG | #9x2-3/4" | 70 mm | 2 M | 27.00(lbs) |
| 78300RG | #9x3" | 76 mm | 2.0 M | 26.00(lbs) |
| 78350RG | #10x3-1/2" | 89 mm | 1 M | 19.00(lbs) |
| 78400RG | #10x4" | 102 mm | 1 M | 21.00(lbs) |
| 78500RG | #10x5" | 127 mm | 1 M | 15.00(lbs) |
| 78600RG | #10x6" | 152 mm | 1 M | 17.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

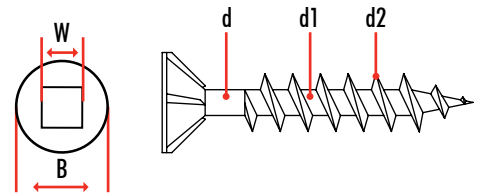
PULL-OUT TEST DATA

| Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|--------------------|----------------|-------------------|------------|-----------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER® Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



EXTERIOR WOOD**Product #281****Woodys Flat Head Ribbed Screws, LOX® Drive** (1 OF 2)

LOX recess, GrabberGard exterior grade coated screws for deck and fence attachment and general exterior wood construction to wood.

Finish - GRABBERGARD®, GRABBERGARD® Brown, GRABBERGARD® Red and GRABBERGARD Green



Flat Head
With Nibs



Type 17
Point



LOX #2

APPLICATIONS

- ▶ Outdoor projects such as decks, docks, fences, and gazebos (with GRABBERGARD™ finish)
- ▶ Indoor uses with cabinets, counters, furniture, and paneling
- ▶ Any wood-to-wood application

PRODUCT FEATURES

- ▶ A superior, weather and element resistant screw
- ▶ The flat head is designed specifically for wood applications
- ▶ LOX® recess drive does not require a magnetic bit tip holder
- ▶ Ribbed head ensures flush countersinking
- ▶ 8 TPI design provides increased holding power

SPECIFICATIONS

- ▶ Gauge - #8 and #10
- ▶ Length — 1-1/2" to 4"
- ▶ Head Type — Flat
- ▶ Recess Type — LOX #2
- ▶ Thread Type — Single Lead
- ▶ Finish — GRABBERGARD® ASTM rated at 1000 hrs
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

EXTERIOR WOOD
Product #281
Woodys Flat Head Ribbed Screws, LOX® Drive (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| W8200RGB | #8x2" | 51 mm | 1750 | 15.00(lbs) |
| W8200RGG | #8x2" | 51 mm | 1750 | 15.00(lbs) |
| W8200RGR | #8x2" | 51 mm | 1750 | 15.00(lbs) |
| W9250RGB | #9x2-1/2" | 63 mm | 1750 | 21.00(lbs) |
| W9250RGG | #9x2-1/2" | 63 mm | 1750 | 21.00(lbs) |
| W9250RGR | #9x2-1/2" | 63 mm | 1750 | 21.00(lbs) |
| W9300RGB | #9x3" | 76 mm | 1750 | 25.00(lbs) |
| W9300RGG | #9x3" | 76 mm | 1750 | 25.00(lbs) |
| W9300RGR | #9x3" | 76 mm | 1750 | 25.00(lbs) |

*1lb Box, Deck Pack and Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

PULL-OUT TEST DATA

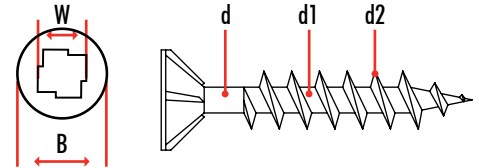
| Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|-----------------|-------------|----------------|------------|--------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #9 | 380 | 391 | 375 | 280 | 263 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

GRABBERGARD® and GRABBER Stainless Wood screws are produced in an ISO 9001 approved and certified environment, and meet or exceed American Society for Testing and Materials Standards ASTM Designation B117 (1000hrs) for Corrosion Resistance and D1761 for Mechanical Fasteners for Wood. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered names or trademarks by John Wagner Associates, Inc.



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EXTERIOR WOOD**Product #281X****Flat Head Ribbed Screws, LOX® Drive** (1 OF 2)

LOX recess, GrabberGard exterior grade coated screws for deck and fence attachment and general exterior wood construction to wood.

Finish - GRABBERGARD®



Flat Head
With Nibs



Type 17
Point



LOX #2

**APPLICATIONS**

- ▶ Outdoor projects such as decks, docks, fences, and gazebos (with GRABBERGARD™ finish)
- ▶ Indoor uses with cabinets, counters, furniture, and paneling
- ▶ Any wood-to-wood application

PRODUCT FEATURES

- ▶ A superior, weather and element resistant screw The flat head is designed specifically for wood applications
- ▶ LOX recess drive does not require a magnetic bit tip holder
- ▶ Ribbed head ensures flush countersinking
- ▶ 8 TPI design provides increased holding power

SPECIFICATIONS

- ▶ Gauge - #8 and #10
- ▶ Length — 1-1/2" to 4"
- ▶ Head Type — Flat
- ▶ Recess Type — LOX #2
- ▶ Thread Type — Single Lead
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

EXTERIOR WOOD
Product #281X
Flat Head Ribbed Screws, LOX® Drive (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| W8200RGB | #8x2" | 51 mm | 1750 | 15.00(lbs) |
| W8200RGG | #8x2" | 51 mm | 1750 | 15.00(lbs) |
| W8200RGR | #8x2" | 51 mm | 1750 | 15.00(lbs) |
| W9250RGB | #9x2-1/2" | 63 mm | 1750 | 21.00(lbs) |
| W9250RGG | #9x2-1/2" | 63 mm | 1750 | 21.00(lbs) |
| W9250RGR | #9x2-1/2" | 63 mm | 1750 | 21.00(lbs) |
| W9300RGB | #9x3" | 76 mm | 1750 | 25.00(lbs) |
| W9300RGG | #9x3" | 76 mm | 1750 | 25.00(lbs) |
| W9300RGR | #9x3" | 76 mm | 1750 | 25.00(lbs) |

*1lb Box, Deck Pack and Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

PULL-OUT TEST DATA

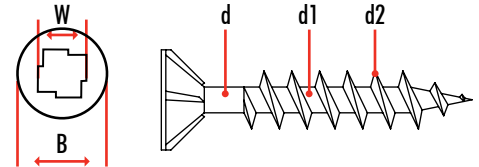
| Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|-----------------|-------------|----------------|------------|--------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #9 | 380 | 391 | 375 | 280 | 263 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

GRABBERGARD® and GRABBER Stainless Wood screws are produced in an ISO 9001 approved and certified environment, and meet or exceed American Society for Testing and Materials Standards ASTM Designation B117 (1000hrs) for Corrosion Resistance and D1761 for Mechanical Fasteners for Wood. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered names or trademarks by John Wagner Associates, Inc.



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EXTERIOR WOOD**Product #287****Flat Head Ribbed Screws, Star Drive** (1 OF 2)

Star recess, GrabberGard exterior grade coated screws for deck and fence attachment and general exterior wood construction to wood.

Finish - GRABBERGARD®, and GRABBERGARD® Red



Flat Head
With Nibs



Type 17
Point



Star 20, 25

APPLICATIONS

- ▶ Outdoor projects such as decks, docks, fences, and gazebos (with GRABBERGARD® finish)
- ▶ Indoor uses with cabinets, counters, furniture, and paneling
- ▶ Any wood-to-wood application

PRODUCT FEATURES

- ▶ A superior, weather and element resistant screw
- ▶ The flat head is designed specifically for wood applications
- ▶ Star recess drive does not require a magnetic bit tip holder
- ▶ Ribbed head ensures flush countersinking
- ▶ 8 TPI design provides increased holding power

SPECIFICATIONS

- ▶ Gauge - #6, #7, #8, #9, and #10
- ▶ Length - 1-1/4-in to 5-in
- ▶ Head Type - Flat
- ▶ Recess Type - Star 20 and 25
- ▶ Thread Type - Single Lead
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance - 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

EXTERIOR WOOD
Product #287
Flat Head Ribbed Screws, Star Drive (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| G6125G | #6x1-1/4" | 32 mm | 8000 | 16.00(lbs) |
| G6150G | #6x1-1/2" | 38 mm | 5000 | 18.00(lbs) |
| G7200G | #7x2" | 50 mm | 3500 | 15.00(lbs) |
| G8225G | #8x2-1/2" | 57 mm | 3000 | 23.00(lbs) |
| G8250G | #8x2-1/2" | 63 mm | 2500 | 21.00(lbs) |
| G8300G | #8x3" | 76 mm | 2000 | 25.00(lbs) |
| G9300G | #9x3" | 76 mm | 2000 | 15.00(lbs) |
| G10350G | #10x3-1/2" | 89 mm | 1000 | 16.00(lbs) |
| G10400G | #10x4" | 101 mm | 1000 | 16.00(lbs) |
| G10500G | #10x5" | 127 mm | 1000 | 16.00(lbs) |

*1lb Box and 5lb bucket screw packaging option available on selected items.

GrabberGard Red items end in "GR" (Example: G6125GR)

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|--------------|--------------|-----|
| #6 | 7.7 | 1.7 | T20 | 2.3 | 3.8 | 8 |
| #7 | 7.7 | 1.7 | T20 | 2.5 | 4.2 | 8 |
| #8 | 8.2 | 1.7 | T20 | 2.8 | 4.5 | 8 |
| #9 | 9.0 | 1.7 | T20 | 3.1 | 4.7 | 8 |
| #10 | 9.2 | 2.0 | T25 | 3.4 | 5.1 | 8 |

PULL-OUT TEST DATA

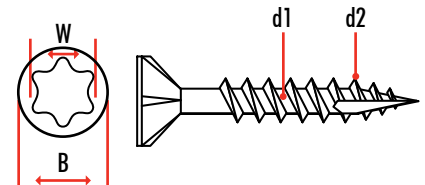
| Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|-----------------|-------------|----------------|------------|--------------------|
| #6 | 000 | 000 | 000 | 000 | 000 |
| #7 | 000 | 000 | 000 | 000 | 000 |
| #8 | 373 | 377 | 358 | 265 | 227 |
| #9 | 380 | 391 | 375 | 280 | 263 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER® Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

GRABBERGARD® and GRABBER Stainless Wood screws are produced in an ISO 9001 approved and certified environment, and meet or exceed American Society for Testing and Materials Standards ASTM Designation B117 (1000hrs) for Corrosion Resistance and D1761 for Mechanical Fasteners for Wood. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered names or trademarks of Grabber Construction Products, Inc.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



EXTERIOR WOOD**Product #286****AnyDeck Composite Screws,
LOX® Drive** (1 OF 2)

Designed and engineered to work with all types of composite materials where surface mounted fasteners are recommended.

Finish - GRABBERGARD®



Undercut
Head



GRABBER
Point



LOX #2

APPLICATIONS

- ▶ All types of composite materials
- ▶ Outdoor projects such as decks, docks, fences, and gazebos

PRODUCT FEATURES

- ▶ Undercut head design leaves crisp clean finish with no mushrooms and burrs.
- ▶ Reverse buttress fine thread design gathers loose materials and pulls it down and out of sight.
- ▶ Coarse threads and extra sharp points provide great holding power and fast starts.
- ▶ LOX® recess drive does not require a magnetic bit tip holder

SPECIFICATIONS

- ▶ Gauge - #9 and #10
- ▶ Length – 2-1/2" to 3"
- ▶ Head Type – Undercut
- ▶ Recess Type – LOX #2
- ▶ Finish – GRABBERGARD™ ASTM rated at 1000 hrs
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

EXTERIOR WOOD
Product #286
**AnyDeck Composite Screws,
LOX® Drive** (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| BC9250G | #9x2-1/2" | 63 mm | 2 M | 24.00(lbs) |
| BC9250R | #9x2-1/2" | 63 mm | 2 M | 27.00(lbs) |
| BC9300B | #9x3" | 76 mm | 2 M | 27.00(lbs) |
| BC9300G | #9x3" | 76 mm | 2 M | 27.00(lbs) |
| BC9300R | #9x3" | 76 mm | 2 M | 27.00(lbs) |

*5lb Box and Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

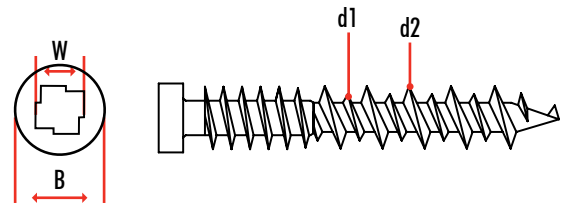
PULL-OUT TEST DATA

| Gauge | 2x2 Douglas Fir | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|-----------------|-------------|----------------|------------|--------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #9 | 380 | 391 | 375 | 280 | 263 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER® Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



EXTERIOR WOOD**Product #DM105****Deckmaster Deck Board Screws** (1 OF 2)**For fastening Deckmaster brackets to deck boards****Finish - GRABBERGARD**

Flat Head

Type 17
Point

LOX #2

Square
Drive**APPLICATIONS**

- ▶ Deckmaster Hidden Fastening System

PRODUCT FEATURES

- ▶ The flat head is designed specifically for wood applications
- ▶ Available in #2 Square, and #2 LOX® recess drive
- ▶ The average ultimate loads of the Deckmaster System with Screws installed at 60° angle. Doug fir to redwood with 1 1/4" screws is 1,012 lbs. Doug fir to redwood with 1 3/4" screws is 1,154 lbs. Pressure treated wood with 1 1/4" screws is 1,180 lbs. Pressure treated wood with 1 3/4" screws is 1,204 lbs.

SPECIFICATIONS

- ▶ Gauge - #10
- ▶ Length - 1" to 1-3/4"
- ▶ Head Type - Flat
- ▶ Recess Type - #2 Square
- ▶ Thread Type - Single Lead
- ▶ Finish - 302 Stainless Steel and GRABBERGARD
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance - 4 amps minimum and 2500 RPM.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

EXTERIOR WOOD
Product #DM105
Deckmaster® Deck Board Screws (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

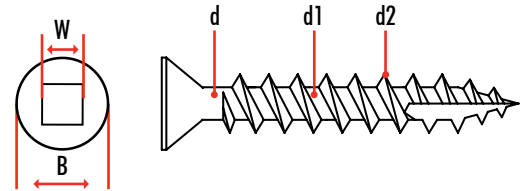
| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| DM100G-100 | #10x1" | 25 mm | 1200 | 13.00(lbs) |
| DM125G-100 | #10x1-1/4" | 32 mm | 1200 | 20.00(lbs) |
| DM175G-100 | #10x1-3/4" | 45 mm | 1200 | 20.00(lbs) |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |



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EXTERIOR WOOD**Product #DM110****Deckmaster® Joist Screws** (1 OF 2)**For fastening Deckmaster brackets to joists****Finish - GRABBERGARD****Pan
Head****Type 17
Point****LOX #2****Square
Drive****APPLICATIONS**

- ▶ Deckmaster Hidden Fastening System

PRODUCT FEATURES

- ▶ Pan head provides a flat bearing surface
- ▶ Available in #2 Square, and #2 LOX® recess drive

SPECIFICATIONS

- ▶ Gauge - #8
- ▶ Length - 1"
- ▶ Head Type - Pan
- ▶ Recess Type - #2 Square
- ▶ Thread Type - Single Lead
- ▶ Finish - 302 Stainless Steel and GRABBERGARD
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance - 4 amps minimum and 2500 RPM.
- ▶ The Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

EXTERIOR WOOD
Product #DM110
Deckmaster® Joist Screws (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

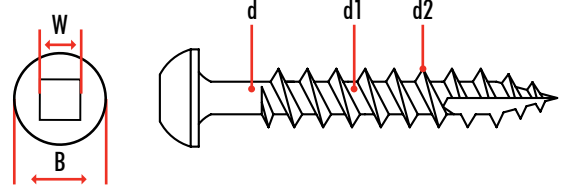
| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| DM100JP-100 | #8x1" | 25 mm | 1100 | 14.00(lbs) |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Light Gauge Metal (20-25)**Product #285****Bugle Head Cabinet STREAKER®** (1 OF 2)**For cabinet assembly attaching to 20-14 gauge steel or wood.****Finish - Black/Gray Phosphate**Bugle
Head23° Streaker®
Point#2 Phillips
Drive**APPLICATIONS**

- ▶ Cabinet assembly and installation
- ▶ Face frame assembly

PRODUCT FEATURES

- ▶ Super sharp, 23° STREAKER® point, designed to penetrate steel quickly and easily
- ▶ The Bugle head is designed to seat fast and easily into soft wood or drywall, creating a flush surface finish.
- ▶ #2 Phillips Recess

SPECIFICATIONS

- ▶ Gauge - #7
- ▶ Length — 1-1/2"
- ▶ Head Type — Bugle
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Single Lead
- ▶ Finish — Black/Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

Light Gauge Metal (20-25)
Product #285
Bugle Head Cabinet STREAKER® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 6W | #7x1-1/2" | 38 mm | 5 M | 20.00(lbs) |

*1lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

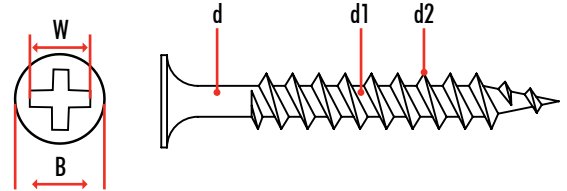
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #7 | 20 | 222 | 817 |
| | 25 | 100 | 245 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Light Gauge Metal (20-25)**Product #210****Scavenger® Head Fastener (1 OF 2)**

Attaches gypsum board to 25-20 ga. steel. Unique Scavenger® head helps reduce paper burrs.

Finish - Black/Gray Phosphate



Scavenger
Head



23° Streaker®
Point



#2 Phillips
Drive

APPLICATIONS

- ▶ 1/2" to 5/8" single-layer gypsum board to 20 – 25 gauge steel studs and runners
- ▶ 1/2" and 5/8" double-layer gypsum boards to 20 –
- ▶ 25 gauge steel studs, runners, furring, and Z furring channels
- ▶ 1" coreboard to metal angle runners in solid partition

PRODUCT FEATURES

- ▶ Unique head configuration helps eliminate paper burrs and aids proper seating of fasteners. A fine thread screw for general interior applications 15 threads per inch
- ▶ Super sharp, 23° STREAKER® point, designed to penetrate steel quickly and easily
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge – #6
- ▶ Lengths – 1" to 1-5/8"
- ▶ Head Type – SCAVENGER®
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Double Lead
- ▶ Finish – Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The SCAVENGER® head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of fastener or strip out of the work surface.
- ▶ The fastener must penetrate beyond the metal three full thread pitches.

Light Gauge Metal (20-25)
Product #210
Scavenger® Head Fastener (2 OF 2)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 168S | #6x1" | 25 mm | 10 M | 28.00(lbs) |
| 368S | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 268S | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 468S | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.27 | 3.45 | 15 |
| | 8.50 | 0.80 | | 2.72 | 2.42 | 3.58 | |

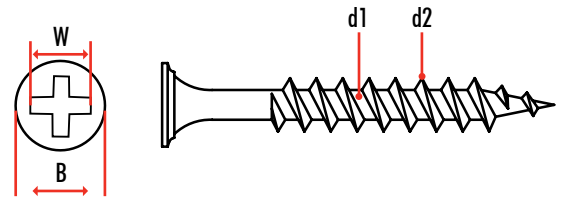
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 20 | 237 | 557 |
| | 25 | 139 | 278 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)**Product #212****Bugle Head STREAKER®** (1 OF 3)

Attaches gypsum board or wood to wood or 25-20 ga. steel or wood. Standard bugle head.

Finish - Black/Gray Phosphate, Clear Zinc and GRABBERGARD®



Bugle
Head



23° Streaker®
Point



#2 Phillips
Drive

APPLICATIONS

- ▶ 1/2" and 5/8" single-layer gypsum board to steel studs and track
- ▶ 1/2" and multiple-layer gypsum board to steel studs and track
- ▶ Steel or wood cabinets through single-layer gypsum board to steel studs, 20 – 25 gauge
- ▶ OSB or plywood to 20 – 25 steel

PRODUCT FEATURES

- ▶ A fine-thread screw for general interior applications
- ▶ Ideal for use with 20 and 25 gauge steel 12 – 15 threads per inch
- ▶ Super sharp, 23° STREAKER® Point, designed to penetrate steel quickly and easily
- ▶ #2 Phillips recess drive
- ▶ The Bugle head is designed to seat fast and easily into soft wood or drywall, creating a flush surface finish.

SPECIFICATIONS

- ▶ Gauge – #6 to #10
- ▶ Length – 1" to 6"
- ▶ Head Type – Bugle
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Double Lead
- ▶ Finish – Gray Phosphate
- ▶ GRABBER® screws are manufactured in a ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specifications for optimal performance – 4 amps minimum and RPM range of 0 – 4000.
- ▶ The bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the STREAKER® or stripout of the work surface.
- ▶ The STREAKER® must penetrate beyond the metal a minimum of three thread pitches.

Light Gauge Metal (20-25)
Product #212
Bugle Head STREAKER® (2 OF 3)

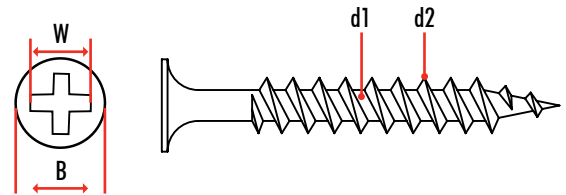
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 168Z | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 168 | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 368Z | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 368RG | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 368 | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 268 | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 268RG | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 268Z | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 468 | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 468RG | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 468Z | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 768Z | #6x2" | 51 mm | 3.5 M | 22.00(lbs) |
| 768 | #6x2" | 51 mm | 3.5 M | 22.00(lbs) |
| 868 | #7x2-1/4" | 57 mm | 3 M | 20.00(lbs) |
| 868Z | #7x2-1/4" | 57 mm | 3 M | 20.00(lbs) |
| 368RG8 | #8x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 968 | #8x2-1/2" | 63 mm | 2.5 M | 20.00(lbs) |
| 968Z | #8x2-1/2" | 63 mm | 2.5 M | 20.00(lbs) |
| 1168Z | #8x3" | 76 mm | 2 M | 22.00(lbs) |
| 1168 | #8x3" | 76 mm | 2 M | 22.00(lbs) |
| 1268 | #10x3-1/2" | 89 mm | 1 M | 17.00(lbs) |
| 1268Z | #10x3-1/2" | 89 mm | 1 M | 17.00(lbs) |
| 1368 | #10x4" | 102 mm | 1 M | 21.00(lbs) |
| 1468 | #10x4-1/2" | 115 mm | 1 M | 21.00(lbs) |
| 1568 | #10x5" | 127 mm | 1 M | 24.00(lbs) |
| 1768 | #10x6" | 152 mm | 1 M | 28.00(lbs) |

*1lb Box, 5lb Box and Collated screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|--------------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)
Product #212
Bugle Head STREAKER® (3 OF 3)

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.27 | 3.45 | 15 |
| | 8.50 | 0.80 | | 2.72 | 2.42 | 3.58 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.40 | 3.75 | 15 |
| | 8.50 | 0.80 | | 2.97 | 2.55 | 3.90 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.08 | 15 |
| | 8.50 | 0.80 | | 3.22 | 3.00 | 4.20 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 4.75 | 12 |
| | 8.90 | 0.80 | | 3.82 | 3.40 | 4.95 | |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 20 | 237 | 557 |
| | 25 | 139 | 278 |
| #7 | 20 | 222 | 817 |
| | 25 | 100 | 245 |
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |
| #10 | 20 | 392 | 418 |
| | 25 | 171 | 358 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)**Product #212A****Bugle Head STREAKER® USA** (1 OF 2)

Attaches gypsum board or wood to wood or 25-20 ga. steel or wood. Standard bugle head.

Finish - Black/Gray Phosphate



Bugle
Head



23° Streaker®
Point



#2 Phillips
Drive

APPLICATIONS

- ▶ 1/2" and 5/8" single-layer gypsum board to steel studs and track
- ▶ 1/2" and multiple-layer gypsum board to steel studs and track
- ▶ Steel or wood cabinets through single-layer gypsum board to steel studs, 20 – 25 gauge
- ▶ OSB or plywood to 20 – 25 steel

PRODUCT FEATURES

- ▶ A fine-thread screw for general interior applications
- ▶ Ideal for use with 20 and 25 gauge steel 12 – 15 threads per inch
- ▶ Super sharp, 23° STREAKER® Point, designed to penetrate steel quickly and easily
- ▶ #2 Phillips recess drive The Bugle head is designed to seat fast and easily into soft wood or drywall, creating a flush surface finish.

SPECIFICATIONS

- ▶ Gauge – #6 to #10
- ▶ Length – 1" to 6"
- ▶ Head Type – Bugle
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Double Lead
- ▶ Finish – Gray Phosphate
- ▶ GRABBER® screws are manufactured in a ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specifications for optimal performance – 4 amps minimum and RPM range of 0 – 4000.
- ▶ The bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the STREAKER® or stripout of the work surface.
- ▶ The STREAKER® must penetrate beyond the metal a minimum of three thread pitches.

Light Gauge Metal (20-25)
Product #212A
Bugle Head STREAKER® USA (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 168A | #6x1" | 25 mm | 10 M | 30.00(lbs) |
| 168HLA | #6x1" | 25 mm | 10 M | 30.00(lbs) |
| 368A | #6x1-1/4" | 32 mm | 10 M | 30.00(lbs) |
| 368HLA | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 268A | #6x1-1/8" | 28 mm | 10 M | 35.00(lbs) |
| 468A | #6x1-5/8" | 41 mm | 5 M | 24.00(lbs) |
| 468HLA | #6x1-5/8" | 41 mm | 5 M | 24.00(lbs) |
| 768A7 | #7x2" | 51 mm | 3.5 M | 28.00(lbs) |
| 968A8 | #8x2-1/2" | 63 mm | 2.5 M | 21.00(lbs) |
| 1168A | #8x3" | 76 mm | 2 M | 21.00(lbs) |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 2.68 | 2.27 | 3.45 | 15 | |
| | 8.50 | 0.80 | | 2.72 | 2.42 | 3.58 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.40 | 3.75 | 15 |
| | 8.50 | 0.80 | | 2.97 | 2.55 | 3.90 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.08 | 15 |
| | 8.50 | 0.80 | | 3.22 | 3.00 | 4.20 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 4.75 | 12 |
| | 8.90 | 0.80 | | 3.82 | 3.40 | 4.95 | |

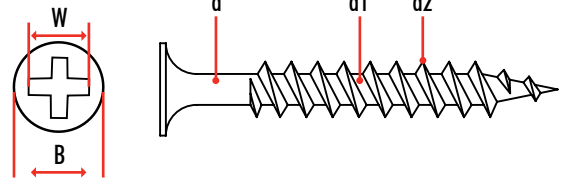
STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 20 | 237 | 557 |
| | 25 | 139 | 278 |
| #7 | 20 | 222 | 817 |
| | 25 | 100 | 245 |
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)**Product #214****Trim Head STREAKER®** (1 OF 2)

Attaches interior wood to light gauge metal and wood. Streaker point means quick and easy penetration while the smaller, less noticeable head provides a finished look.

Finish - Black/Gray Phosphate



Trim
Head



23° Streaker®
Point



#1 Square
Drive

APPLICATIONS

- ▶ Wood trim over single and double-layer gypsum board to 20 to 25 gauge steel studs and track
- ▶ Wood trim over single and double-layer gypsum board to wood studs

PRODUCT FEATURES

- ▶ A fine thread screw for finishing applications
- ▶ 15 threads per inch
- ▶ Super sharp, 23° STREAKER® point, designed to penetrate steel quickly and easily
- ▶ #1 square recess drive

SPECIFICATIONS

- ▶ Gauge — #7 and #8
- ▶ Lengths — 1-5/8" to 3"
- ▶ Head Type — Trim
- ▶ Recess Type — #1 Phillips or #1 square
- ▶ Thread Type — Double Lead
- ▶ Finish — Gray Phosphate, Clear Zinc, GRABBERGARD
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Trim head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches

Light Gauge Metal (20-25)
Product #214
Trim Head STREAKER® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 17S100 | #7x1" | 25 mm | 10 M | 29.00(lbs) |
| 17S | #7x1-5/8" | 41 mm | 10 M | 49.00(lbs) |
| 18S | #7x2-1/4" | 57 mm | 5 M | 34.00(lbs) |
| 17S76 | #8x3" | 76 mm | 2 M | 21.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #7 | 5.30 | 1.20 | #1 | 2.93 | 2.40 | 3.75 | 15 |
| | 5.80 | 1.50 | | 2.97 | 2.55 | 3.90 | |
| #8 | 5.30 | 1.20 | #1 | 3.18 | 2.80 | 4.00 | 15 |
| | 5.80 | 1.50 | | 3.22 | 3.00 | 4.20 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

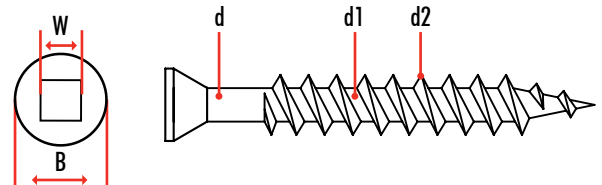
SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #7 | 20 | 222 | 817 |
| | 25 | 100 | 245 |
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



Light Gauge Metal (20-25)**Product #216****Pan Framing Head STREAKER®** (1 OF 2)

Pan head fine thread fasteners designed for attaching 25-20 ga. steel. Unique grip-tight, high torque pan head design.

Finish - Black/Gray Phosphate



Pan
Head



23° Streaker®
Point



#2 Phillips
Drive

APPLICATIONS

- ▶ Steel studs to track, 20 to 25 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Other metal-to-metal applications where high torque is required
- ▶ Sheet metal fabrication

PRODUCT FEATURES

- ▶ A fine thread screw for metal-to-metal framing applications
- ▶ 15 or 20 threads per inch
- ▶ High torque Pan Framing Head
- ▶ Super sharp, 23° STREAKER® point, designed to penetrate steel quickly and easily
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge — #7
- ▶ Length — 7/16"
- ▶ Head Type — Pan Framing
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Double Lead
- ▶ Finish — Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Light Gauge Metal (20-25)
Product #216
Pan Framing Head STREAKER® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 23 | #7x7/16" | 11 mm | 15 M | 51.00(lbs) |
| 23A | #7x7/16" | 11 mm | 15 M | 44.00(lbs) |
| 23F | #7x7/16" | 11 mm | 15 M | 51.00(lbs) |

*1lb Box, 5lb Box and Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #7 | 5.30 | 1.20 | #1 | 2.93 | 2.40 | 3.75 | 15 |
| | 5.80 | 1.50 | | 2.97 | 2.55 | 3.90 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

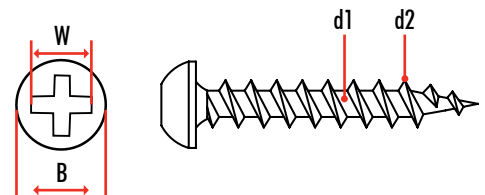
SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #7 | 20 | 303 | 776 |
| | 25 | 107 | 372 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



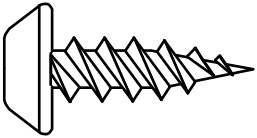
All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012..



Light Gauge Metal (20-25)**Product #PS70****Pan Head VECTOR™** (1 OF 2)

Pan head fine thread fasteners designed for attaching 25-20 ga. steel. Unique grip-tight, high torque pan head design.

Finish - Black/Gray Phosphate



Pan Head



Vector Point

#2 Phillips
Drive**APPLICATIONS**

- ▶ Steel studs to track, 20 to 25 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Other metal-to-metal applications where high torque is required
- ▶ Sheet metal fabrication

SPECIFICATIONS

- ▶ Gauge — #7
- ▶ Length — 7/16"
- ▶ Head Type — Pan Framing
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Double Lead
- ▶ Finish — Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

PRODUCT FEATURES

- ▶ A fine thread screw for metal-to-metal framing applications
- ▶ 15 or 20 threads per inch
- ▶ High torque Pan Framing Head
- ▶ Super sharp, Vector point, designed to penetrate steel quickly and easily
- ▶ #2 Phillips recess drive

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Light Gauge Metal (20-25)
Product #PS70
Pan Head VECTOR™ (2 OF 2)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 23V | #7x7/16" | 11 mm | 15 M | 51.00(lbs) |

*1lb Box, 5lb Box and Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #7 | 5.30 | 1.20 | #1 | 2.93 | 2.40 | 3.75 | 15 |
| | 5.80 | 1.50 | | 2.97 | 2.55 | 3.90 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

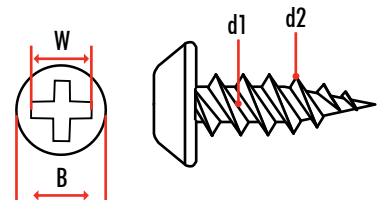
SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #7 | 20 | 303 | 776 |
| | 25 | 107 | 372 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012..



Light Gauge Metal (20-25)**Product #218****Hex Head STREAKER®** (1 OF 2)

**High-torque hex washer head for fast framing and sheet metal work in 25-20 ga.
Use 1/4-in nut setter.**

Finish - Black/Gray Phosphate



Hex Head

23° Streaker®
Point

Hex Drive

APPLICATIONS

- ▶ Steel studs to door frame jamb anchor clips
- ▶ Other metal-to-metal applications where high torque is required
- ▶ Sheet metal and duct assembly

PRODUCT FEATURES

- ▶ A fine thread screw for metal-to-metal framing applications
- ▶ 15 threads per inch
- ▶ High torque hex head, which can be easily removed when necessary
- ▶ Super sharp, 23° STREAKER® point, designed to penetrate steel quickly and easily

SPECIFICATIONS

- ▶ Gauge – #8
- ▶ Length – 9/16"
- ▶ Head Type – Hex
- ▶ Thread Type – Double Lead
- ▶ Finish – Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Hex head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Light Gauge Metal (20-25)
Product #218
Hex Head STREAKER® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| G02 | #8x1/2" | 13 mm | 15,000 | 33.00(lbs) |
| 25Z | #8x9/16" | 14 mm | 10 M | 33.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 8.18 | 6.20 | | 3.18 | 2.80 | 4.00 | 15 |
| | 8.84 | 6.35 | | 3.22 | 3.00 | 4.20 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|------------|--------------------|-------------------|-----------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

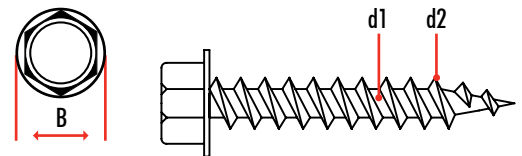
SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)**Product #220****Wafer Head STREAKER®** (1 OF 2)**Attaches metal lath to wood or to 25-20 ga. steel studs and framing.****Finish - Clear Zinc and GRABBERGARD Gray**Wafer
Head23° STREAKER®
Point#2 Phillips
Drive**APPLICATIONS**

- ▶ Steel studs to 20 to 25 gauge track
- ▶ Metal K-lath, wire lath, wood grounds, and metal studs to 20 – 25 gauge steel
- ▶ Other metal-to-metal applications that require low profile head exposure

SPECIFICATIONS

- ▶ Gauge — #8
- ▶ Lengths — 9/16" to 3"
- ▶ Head Type — Wafer
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Double Lead
- ▶ Finish — Gray Phosphate or Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

PRODUCT FEATURES

- ▶ A fine thread screw for metal-to-metal applications
- ▶ Low profile head exposure
- ▶ 15 threads per inch
- ▶ Super sharp, 23° STREAKER® point, designed to penetrate steel quickly and easily
- ▶ #2 Phillips recess drive
- ▶ Wafer head provides a greater bearing surface than other fasteners

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Wafer head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Light Gauge Metal (20-25)
Product #220
Wafer Head STREAKER® (2 OF 2)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 32RG | #8x1" | 25mm | 5 M | 26.00(lbs) |
| 32Z | #8x1" | 25 mm | 5 M | 26.00(lbs) |
| 3138Z | #8x1-1/2" | 38 mm | 3 M | 21.00(lbs) |
| 33RG | #8x1-1/4" | 32 mm | 5 M | 31.00(lbs) |
| 33Z | #8x1-1/4" | 32 mm | 5 M | 31.00(lbs) |
| 3151Z | #8x2" | 51 mm | 2.5 M | 22.00(lbs) |
| 3163Z | #8x2-1/2" | 63 mm | 2.5 M | 26.00(lbs) |
| 3176Z | #8x3" | 76 mm | 1 M | 12.00(lbs) |
| 31RG | #8x9/16" | 14 mm | 10 M | 37.00(lbs) |
| 31Z | #8x9/16" | 14 mm | 10 M | 37.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 10.80 | 2.00 | #2 | 3.18 | 2.80 | 3.20 | 15 |
| | 11.40 | 2.40 | | 3.22 | 3.00 | 3.40 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

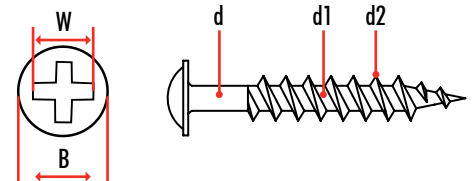
SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)**Product #PS120****Wafer Head VECTOR™** (1 OF 2)**Attaches metal lath to wood or to 25-20 ga. steel studs and framing.****Finish - Clear Zinc and Gray/Black Phosphate**Wafer
Head

Vector Point

#2 Phillips
Drive**APPLICATIONS**

- ▶ Steel studs to 20 to 25 gauge track
- ▶ Metal K-lath, wire lath, wood grounds, and metal studs to 20 – 25 gauge steel
- ▶ Other metal-to-metal applications that require low profile head exposure

SPECIFICATIONS

- ▶ Gauge – #7
- ▶ Lengths – 9/16"
- ▶ Head Type – Wafer
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Double Lead
- ▶ Finish – Gray Phosphate or Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

PRODUCT FEATURES

- ▶ A fine thread screw for metal-to-metal applications
- ▶ Low profile head exposure
- ▶ 20 threads per inch
- ▶ Super sharp, Vector point, designed to penetrate steel quickly and easily
- ▶ #2 Phillips recess drive
- ▶ Wafer head provides a greater bearing surface than other fasteners

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Wafer head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Light Gauge Metal (20-25)
Product #PS120
Wafer Head VECTOR™ (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 31V | #7x9/16" | 14 mm | 10 M | 37.00(lbs) |
| 31ZV | #7x9/16" | 14 mm | 10 M | 37.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #7 | 11.10 | 2.24 | #2 | 3.18 | 2.38 | 3.65 | 20 |
| | 11.60 | 2.74 | | 3.22 | 2.58 | 3.85 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

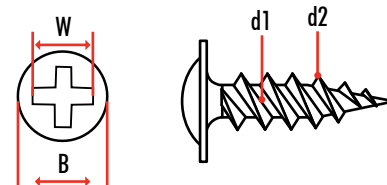
SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 20 | 0.0396" | 1 mm |
| 25 | 0.0188" | .6 mm |

PULL-OUT TEST DATA

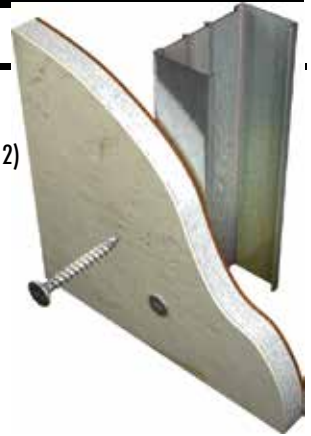
| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #7 | 20 | 89 | 327 |
| | 25 | 40 | 98 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)**Product #224****GRABBER® Scavenger® High/ Low Threaded Screws** (1 OF 2)**Designed for drywall to light metal or wood applications.****Finish - Black/Gray Phosphate**Scavenger®
Head23° Streaker®
Point#2 Phillips
Drive**APPLICATIONS**

- ▶ Drywall to light metal or wood

PRODUCT FEATURES

- ▶ Super sharp 30° STREAKER® Point you get quick and easy penetration into metal studs.
- ▶ #2 Phillips recess

SPECIFICATIONS

- ▶ Gauge - #6 - #8
- ▶ Length — 1" to 3"
- ▶ Head Type — Scavenger
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Alternating High/Low Thread
- ▶ Finish — Black/Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

Light Gauge Metal (20-25)
Product #224
GRABBER® Scavenger® High/Low Threaded Screws (2 OF 2)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 168SHL | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 368SHL | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 268SHL | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 468SHL | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 768SHL | #7x2" | 51 mm | 3.5 M | 19.00(lbs) |
| 968SHL | #8x2-1/2" | 63 mm | 2.5 M | 21.00(lbs) |
| 1168SHL | #8x3" | 76 mm | 3 M | 22.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

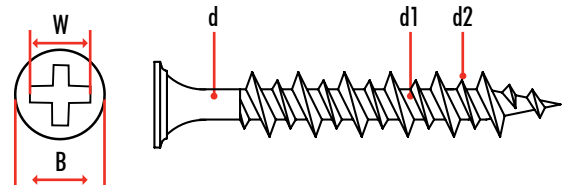
STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 20 | 237 | 557 |
| | 25 | 139 | 278 |
| #7 | 20 | 222 | 817 |
| | 25 | 100 | 245 |
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Light Gauge Metal (20-25)**Product #224A****GRABBER® Bugle High/ Low Threaded Screws** (1 OF 2)**Designed for drywall to light metal 20-25ga. or wood applications.****Finish - Black/Gray Phosphate**Bugle
Head23° Streaker®
Point#2 Phillips
Drive**APPLICATIONS**

- ▶ Drywall to light metal or wood

PRODUCT FEATURES

- ▶ Super sharp 30° STREAKER® Point you get quick and easy penetration into metal studs.
- ▶ #2 Phillips recess

SPECIFICATIONS

- ▶ Gauge - #6 - #8
- ▶ Length — 1" to 3"
- ▶ Head Type — Bugle
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Alternating High/Low Thread
- ▶ Finish — Black/Gray Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

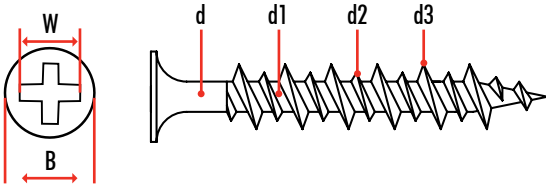
- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

Light Gauge Metal (20-25)
Product #224A
GRABBER® Bugle High/ Low Threaded Screws (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 168HLA | #6x1" | 25 mm | 10 M | 29.00(lbs) |
| 368HLA | #6x1-1/4" | 32 mm | 8 M | 30.00(lbs) |
| 268HLA | #6x1-1/8" | 28 mm | 10 M | 32.00(lbs) |
| 468HLA | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 768HLA | #7x2" | 51 mm | 3.5 M | 19.00(lbs) |
| 968HLA | #8x2-1/2" | 63 mm | 2.5 M | 21.00(lbs) |
| 1168HLA | #8x3" | 76 mm | 3 M | 22.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.


STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, No Red Rust |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 20 | 237 | 557 |
| | 25 | 139 | 278 |
| #7 | 20 | 222 | 817 |
| | 25 | 100 | 245 |
| #8 | 20 | 342 | 785 |
| | 25 | 145 | 325 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |
| 22 | 0.0285" | .76 mm |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.

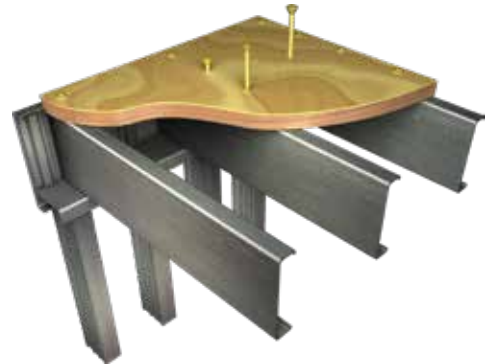


Heavy Gauge Metal (20ga or thicker)**Product #222****Flat Head STABBER®** (1 OF 2)**Self tapping screws for attaching plywood or OSB to steel studs/track****Finish - Yellow Zinc, Clear Zinc and GRABBERGARD**

Flat Head

23° Streaker®
Point

LOX #2

**APPLICATIONS**

- ▶ Plywood or OSB to 22-16 gauge steel runners or wood joists

PRODUCT FEATURES

- ▶ Self tapping STREAKER® point is designed for penetration into 22-16 gauge steel.
- ▶ Flat head provides a flush finished surface
- ▶ LOX® recess does not require a magnetic bit tip holder

SPECIFICATIONS

- ▶ Gauge – #8
- ▶ Length – 1-1/4" to 3"
- ▶ Point – STREAKER®
- ▶ Head Type – Flat
- ▶ Recess – LOX
- ▶ Thread Type – Double Lead, 14 Threads per Inch
- ▶ Finish – Yellow Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #222
Flat Head STABBER® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| S8150JBWYZ | #8x1-1/2" | 38 mm | 4M | 31.00(lbs) |
| S8150JBWZ | #8x1-1/2" | 38 mm | 4M | 31.00(lbs) |
| S8175JBWYZ | #8x1-3/4" | 45 mm | 4M | 28.00(lbs) |
| CS8200JBWYZ | #8x2" | 51 mm | 1M | 9.00(lbs) |
| CS8250JBWYZ | #8x2-1/2" | 63 mm | 1 M | 9.00(lbs) |

*Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 8.60 | 0 | LOX® | 3.34 | 2.95 | 4.10 | 14 |
| | 9.20 | 0 | | 3.38 | 3.12 | 4.30 | |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #8 | 14 | 765 | 2064 |
| | 16 | 621 | 1461 |
| | 18 | 336 | 717 |
| | 20 | 231 | 483 |
| | 22 | 177 | 326 |
| #10 | 14 | 819 | 2064 |
| | 16 | 654 | 1461 |
| | 18 | 339 | 717 |
| | 20 | 246 | 483 |
| | 22 | 175 | 326 |

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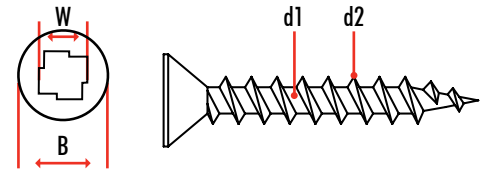
All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

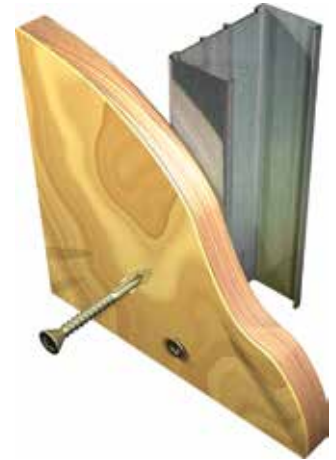
SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |
| 22 | 0.0285" | .76 mm |



**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



Heavy Gauge Metal (20ga or thicker)**Product #238****GRABBER® Flat Head PlyLock® Winged Driller #3 Point LOX® Drive (collated)** (1 OF 2)**Fasteners used in the screwing of the wood-deck or plywood/OSB subflooring panels.****Finish - Yellow Zinc**

Flat Head



Drill Point



LOX®

APPLICATIONS

- ▶ GRABBER Wood to Metal – Wood to Metal fastening Eagle® screws are a #10 gauge “wood to metal sheathing” type of fastener used in the screwing of the wood-deck or plywood/OSB subflooring panels. The fasteners can be single-hand driven (bulk) or collated

PRODUCT FEATURES

- ▶ Yellow Zinc finish per ASTM B117
- ▶ LOX® #3 Drive
- ▶ Hi-Lo Threading
- ▶ 14 TPI
- ▶ #3 Winged Driller Type S-12

SPECIFICATIONS

- ▶ Gauge - #10
- ▶ Length – 1-3/4" to 2-1/2"
- ▶ Point – #3 Winged Drill Point
- ▶ Head Type – Flat
- ▶ Recess Type – #3 LOX®
- ▶ Thread Type – 14 Threads per inch, 7 High, and 7 Low
- ▶ Finish – Yellow Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Minimum 2500 rpm 4 amp screwgun recommended
- ▶ Install screws flush with surface, or with a countersink

Heavy Gauge Metal (20ga or thicker)

Product #238
GRABBER® Flat Head PlyLock® Winged Driller #3 Point LOX® Drive (collated) (1 OF 2)

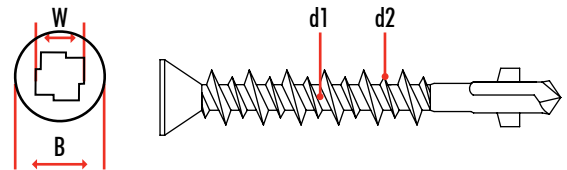
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| C10175L3YZE | #10x1-3/4" | 45 mm | 1000 | 7.00(lbs) |
| C10200L3GE | #10x2" | 51 mm | 1000 | 12.00(lbs) |
| C10200L3YZE | #10x2" | 51 mm | 1000 | 12.00(lbs) |
| C10250L3YZE | #10x2-1/2" | 63 mm | 1000 | 14.00(lbs) |

*Collated screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| GRABBERGARD | Salt Spray | ASTM B117 Results | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 10 | 3 | 0.110-0.175 | 20-8 |

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Heavy Gauge Metal (20ga or thicker)**Product #240****Bugle Head DRIVALL® Self Drilling** (1 OF 3)

Attaches drywall or wood to heavy gauge metal 20-8 gauge. Bugle head creates a smooth professional finish.

Finish - Black/Gray Phosphate, Clear Zinc and GRABBERGARD



Bugle
Head



Drill Point



#2 Phillips
Drive



LOX

APPLICATIONS

- ▶ Self-drilling screws used to attach drywall to heavy gauge metal 20-8 gauge.
- ▶ Gypsum board to 20-8 gauge steel studs and track
- ▶ Insulation to steel, 20-8 gauge
- ▶ Collated or Bulk

PRODUCT FEATURES

- ▶ ACQ and Fire Treated wood Compliant with GRABBERGARD Coating
- ▶ 14 TPI
- ▶ Bugle head creates a smooth professional finish.
- ▶ #2 Phillips recess drive or LOX®
- ▶ Drill point is designed for penetration into 20-8 gauge steel

SPECIFICATIONS

- ▶ Gauge - #6 - #10
- ▶ Length — 1" to 5"
- ▶ Head Type — Bugle
- ▶ Recess Type — #2 Phillips or LOX®
- ▶ Thread Type — Single Lead
- ▶ Finish — Black/Gray Phosphate, Clear Zinc and GRABBERGARD®
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCFS ES ER #5280

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.
- ▶ Minimum 2500 rpm 4 amp screwgun recommended
- ▶ Install screws flush with surface, or with a countersink

Heavy Gauge Metal (20ga or thicker)

Product #240
Bugle Head DRIVALL® Self Drilling (2 OF 3)

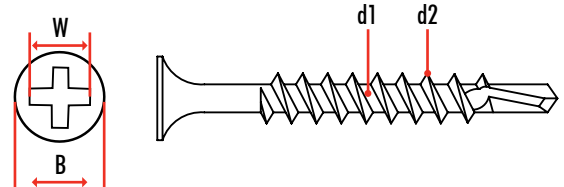
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|--------------|--------------|---------------|---------------------|---------------------------|
| 14RG | #6x1-1/4" | 32 mm | 8 M | 32.00(lbs) |
| 15RG | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 16RG | #6x1-7/8" | 47 mm | 4 M | 26.00(lbs) |
| 30SRG | #8x2-3/8" | 60 mm | 3 M | 28.00(lbs) |
| 30SRG | #8x2-3/8" | 60 mm | 3 M | 28.00(lbs) |
| 14Z8LOX® | #8x1-1/4" | 32 mm | 1 M | 7.00(lbs) (Collated only) |
| 30MRG | #8x2-5/8" | 66 mm | 2 M | 20.00(lbs) |
| 30LRG | #8x3" | 76 mm | 2 M | 20.00(lbs) |
| B10350SDL2RG | #10x3-1/2" | 89 mm | 1 M | 22.00(lbs) |
| B10350SDL2Z | #10x3-1/2" | 89 mm | 1 M | 22.00(lbs) |
| B10350SDRG | #10x3-1/2" | 89 mm | 1 M | 22.00(lbs) |
| B10350SDZ | #10x3-1/2" | 89 mm | 1 M | 22.00(lbs) |
| B10400SDL2Z | #10x4" | 102 mm | 1 M | 24.00(lbs) |
| B10400SDRG | #10x4" | 102 mm | 1 M | 24.00(lbs) |
| B10400SDZ | #10x4" | 102 mm | 1 M | 24.00(lbs) |
| B10450LYZ | #10x4-1/2" | 115 mm | 1 M | 25.00(lbs) |
| B10500SDL2Z | #10x5" | 127 mm | 1 M | 26.00(lbs) |
| B10500SDRG | #10x5" | 127 mm | 1 M | 26.00(lbs) |
| B10500SDZ | #10x5" | 127 mm | 1 M | 26.00(lbs) |

*Collated screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|--------------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 6 | 3 | 0.090-0.110 | 20-12 |
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)**Product #240A****Bugle Head DRIVALL® Self Drilling** (1 OF 2)

Attaches drywall or wood to heavy gauge metal 20-12 gauge. Bugle head creates a smooth professional finish.

Finish - Black/Gray Phosphate, Clear Zinc and GRABBERGARD



Bugle
Head



Drill Point



#2 Phillips
Drive

APPLICATIONS

- ▶ Self-drilling screws used to attach drywall to heavy gauge metal 20-12 gauge.
- ▶ Gypsum board to 20-12 gauge steel studs and track
- ▶ Insulation to steel, 20-12 gauge
- ▶ Collated or Bulk

PRODUCT FEATURES

- ▶ ACQ and Fire Treated wood Compliant with GRABBERGARD Coating
- ▶ 14 TPI
- ▶ Bugle head creates a smooth professional finish.
- ▶ #2 Phillips recess drive
- ▶ Drill point is designed for penetration into 20-12 gauge steel

SPECIFICATIONS

- ▶ Gauge - #8
- ▶ Length — 1-1/4"
- ▶ Head Type — Bugle
- ▶ Recess Type — #2 Phillips or LOX®
- ▶ Thread Type — Single Lead
- ▶ Finish — Black/Gray Phosphate, Clear Zinc and GRABBERGARD®
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC-ES ESR#1271

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.
- ▶ Minimum 2500 rpm 4 amp screwgun recommended
- ▶ Install screws flush with surface, or with a countersink

Heavy Gauge Metal (20ga or thicker)

Product #240A
Bugle Head DRIVALL® Self Drilling (2 OF 2)

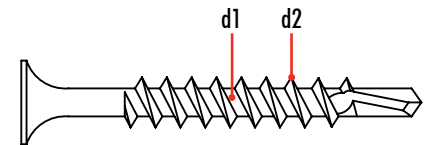
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 13A | #6x1" | 25 mm | 10 M | 33.00(lbs) |
| 14ZA | #6x1-1/4" | 32 mm | 8 M | 33.00(lbs) |
| 15A | #6x1-5/8" | 41 mm | 5 M | 27.00(lbs) |
| 15ZA | #6x1-5/8" | 41 mm | 5 M | 27.00(lbs) |
| 16A | #6x1-7/8" | 47 mm | 4 M | 27.00(lbs) |
| 16ZA | #6x1-7/8" | 47 mm | 4 M | 27.00(lbs) |

*Collated screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|--------------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 6 | 3 | 0.090-0.110 | 20-12 |
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)**Product #240S****Scavenger® Head DRIVALL® Self Drilling** (1 OF 3)

Attaches gypsum, insulation board, wood, etc. to metal studs 20-12 ga. Unique Scavenger® head helps reduce paper burrs.

Finish - Black/Gray Phosphate, Clear



Scavenger®
Head



Drill Point



#2 Phillips
Drive

APPLICATIONS

- ▶ Gypsum board to 20-12 gauge steel studs and track
- ▶ Insulation to steel, 20-12 gauge

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into 20-12 gauge steel
- ▶ #2 Phillips recess drive
- ▶ Scavenger® head will seat fast and easily and create a flush surface finish
- ▶ Unique head configuration helps eliminate paper burrs and aids proper seating of fasteners

SPECIFICATIONS

- ▶ Gauge – #6 to #8
- ▶ Lengths – 1" to 3"
- ▶ Head Type – SCAVENGER®
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Single Lead
- ▶ Finish – Gray Phosphate and Clear Zinc GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Scavenger head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #240S
Scavenger® Head DRIVALL® Self Drilling (2 OF 3)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 13S | #6x1" | 25 mm | 10 M | 33.00(lbs) |
| 13SZ | #6x1" | 25 mm | 10 M | 33.00(lbs) |
| 14S | #6x1-1/4" | 32 mm | 8 M | 33.00(lbs) |
| 14SZ | #6x1-1/4" | 32 mm | 8 M | 33.00(lbs) |
| 135S | #6x1-1/8" | 28 mm | 10 M | 37.00(lbs) |
| 135SZ | #6x1-1/8" | 28 mm | 10 M | 37.00(lbs) |
| 15S | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 15SZ | #6x1-5/8" | 41 mm | 5 M | 22.00(lbs) |
| 16S | #6x1-7/8" | 47 mm | 4 M | 26.00(lbs) |
| 16SZ | #6x1-7/8" | 47 mm | 4 M | 26.00(lbs) |
| 30SS | #8x2-3/8" | 60 mm | 3 M | 28.00(lbs) |
| 30SSZ | #8x2-3/8" | 60 mm | 3 M | 28.00(lbs) |
| 30MS | #8x2-5/8" | 66 mm | 2 M | 20.00(lbs) |
| 30MSZ | #8x2-5/8" | 66 mm | 2 M | 20.00(lbs) |
| 30LS | #8x3" | 76 mm | 2 M | 22.00(lbs) |
| 30LSZ | #8x3" | 76 mm | 2 M | 22.00(lbs) |

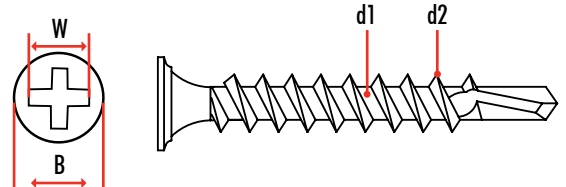
*1lb Box, 5lb Box and Collated screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|--------------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD® | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD® | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 6 | 3 | 0.090-0.110 | 20-12 |
| 8 | 3 | 0.100-0.140 | 20-12 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)

Product #240S
Scavenger® Head DRIVALL® Self Drilling (3 OF 3)

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 2.64 | #2 | 2.78 | 2.40 | 3.40 | 20 |
| | 8.50 | 3.00 | | 2.82 | 2.60 | 3.60 | |
| #7 | 8.00 | 2.64 | #2 | 3.03 | 2.45 | 3.75 | 19 |
| | 8.50 | 3.00 | | 3.07 | 2.65 | 3.95 | |
| #8 | 8.00 | 2.64 | #2 | 3.28 | 2.85 | 4.05 | 18 |
| | 8.50 | 3.00 | | 3.32 | 3.05 | 4.25 | |

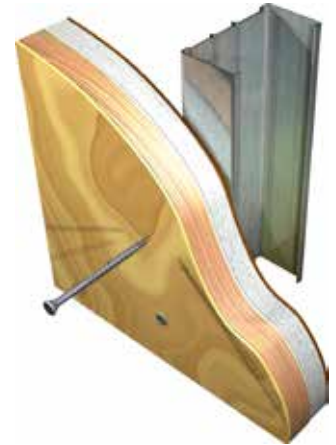
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 14 | 906 | 1145 |
| | 16 | 265 | 792 |
| | 18 | 287 | 797 |
| | 20 | 237 | 557 |
| #7 | 14 | 708 | 1479 |
| | 16 | 454 | 1148 |
| | 18 | 361 | 1140 |
| | 20 | 213 | 777 |
| #8 | 14 | 450 | 1012 |
| | 16 | 442 | 955 |
| | 18 | 340 | 1045 |
| | 20 | 265 | 680 |
| #10 | 14 | 722 | 0 |
| | 16 | 0 | 698 |
| | 18 | 0 | 684 |
| | 20 | 0 | 456 |
| | 22 | 0 | 390 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)**Product #242****Trim Head DRIVALL® Self Drilling** (1 OF 2)**Attaches wood trim over single or double layer gypsum board to 20-12 ga. steel.****Finish - Black/Gray Phosphate**Trim
Head

Drill Point

#1 Square
Drive**APPLICATIONS**

- ▶ Wood trim over single and double layer gypsum board to 20-12 gauge steel studs and track

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into 20-12 gauge steel
- ▶ #1 Phillips recess or #1 square drive
- ▶ Trim head leaves a finished surface

SPECIFICATIONS

- ▶ Gauge – #7 and #8
- ▶ Lengths – 1-5/8" to 3"
- ▶ Head Type – Trim
- ▶ Recess Type - #1 Square
- ▶ Thread Type – Single Lead
- ▶ Finish – Gray Phosphate, Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Trim head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #242
Trim Head DRIVALL® Self Drilling (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 17SD | #7x1-5/8" | 41 mm | 5 M | 28.00(lbs) |
| 18SD | #7x2-1/4" | 57 mm | 4 M | 29.00(lbs) |
| 17SD76 | #8x3" | 76 mm | 2 M | 22.00(lbs) |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #7 | 5.30 | 1.50 | #1 | 3.03 | 2.45 | 3.75 | 19 |
| | 5.80 | 2.08 | | 3.07 | 2.65 | 3.95 | |
| #8 | 5.30 | 1.50 | #1 | 3.28 | 2.85 | 4.05 | 18 |
| | 5.80 | 2.08 | | 3.32 | 3.05 | 4.25 | |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #7 | 14 | 708 | 1479 |
| | 16 | 454 | 1148 |
| | 18 | 361 | 1140 |
| | 20 | 213 | 777 |
| #8 | 14 | 450 | 1012 |
| | 16 | 442 | 955 |
| | 18 | 340 | 1045 |
| | 20 | 265 | 680 |

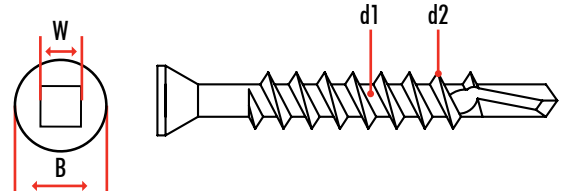
**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, no red rust |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 6 | 3 | 0.090-0.110 | 20-12 |
| 8 | 3 | 0.100-0.140 | 20-12 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved.



Heavy Gauge Metal (20ga or thicker)**Product #244****Pan Framing Head DRIVALL® Self** (1 OF 2)

Pan head drill point fasteners designed for attaching 20-8 ga. steel. Unique grip-tight, high torque pan head design.

Finish - Clear Zinc



Pan
Head



Drill Point



#2 Phillips
Drive

APPLICATIONS

- ▶ Steel studs to track, 20-8 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Other metal-to-metal applications, 20-8 gauge

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into heavy gauge steel
- ▶ #2 Phillips recess drive
- ▶ Pan Framing head provides a flat bearing surface

SPECIFICATIONS

- ▶ Gauge — #6
- ▶ Length — 7/16"
- ▶ Head Type — Pan Framing
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Single Lead
- ▶ Finish — Gray Phosphate or Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Pan Framing head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #244
Pan Framing Head DRIVALL® Self (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 19Z | #6x7/16" | 11 mm | 15 M | 38.00(lbs) |
| 20Z | #8x1/2" | 13 mm | 10 M | 33.00(lbs) |
| 10100P | #10x1" | 25 mm | 2.5 M | 37.00(lbs) |
| 10075P | #10x3/4" | 19 mm | 4 M | 30.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 7.40 | 2.49 | #2 | 2.78 | 2.40 | 3.40 | 20 |
| | 8.10 | 2.87 | | 2.82 | 2.60 | 3.60 | |
| #8 | 8.18 | 6.20 | | 3.28 | 2.85 | 4.05 | 18 |
| | 8.84 | 6.35 | | 3.32 | 3.05 | 4.25 | |
| #10 | 9.75 | 7.75 | | 3.78 | 3.25 | 4.62 | 16 |
| | 10.50 | 7.93 | | 3.82 | 3.45 | 4.82 | |
| #12 | 10.10 | 7.75 | | 4.38 | 3.99 | 5.31 | 14 |
| | 11.00 | 7.93 | | 4.42 | 4.17 | 5.46 | |
| #14 | 12.20 | 9.32 | | 5.08 | 4.70 | 6.10 | 14 |
| | 13.20 | 9.52 | | 5.12 | 4.88 | 6.25 | |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.

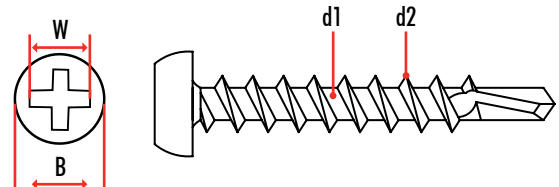

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|------------|--------------------|-------------------|-----------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #6 | 14 | 906 | 1145 |
| | 16 | 265 | 792 |
| | 18 | 287 | 797 |
| | 20 | 237 | 557 |
| #8 | 14 | 450 | 1012 |
| | 16 | 442 | 955 |
| | 18 | 340 | 1045 |
| | 20 | 265 | 680 |
| #10 | 12 | 1082 | 1660 |
| | 14 | 657 | 1395 |
| | 16 | 542 | 1332 |
| | 18 | 415 | 1072 |
| | 20 | 367 | 675 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

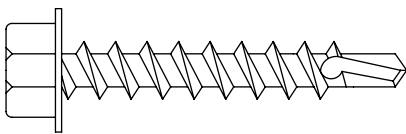

DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 6 | 3 | 0.090-0.110 | 20-12 |
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |

Heavy Gauge Metal (20ga or thicker)**Product #246****Hex Head DRIVALL® Self Drilling** (1 OF 3)

Attaches fixtures, backup plates, door frames and lathers channel to structural studs, metal checks, etc. 20-8 ga.

Finish - Clear Zinc and GRABBERGARD



Hex Head

S-12
Drill Point#3
Drill Point#4
Drill Point

Hex Drive

APPLICATIONS

- ▶ Steel studs to track, 20-8 gauge steel
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Plaster grounds to 20-8 gauge steel
- ▶ Other metal-to-metal attachments, 20-8 gauge

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into heavy gauge metal
- ▶ Hex head provides maximum driving torque with a flat bearing surface
- ▶ Also available with #3 point

SPECIFICATIONS

- ▶ Gauge — #6 to #14
- ▶ Lengths — 1/2" to 2-1/2"
- ▶ Head Type — Hex
- ▶ Thread Type — Single Lead
- ▶ Finish — Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Hex head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #246
Hex Head DRIVALL® Self Drilling (2 OF 3)

PRODUCT SIZES AND ORDERING INFORMATION

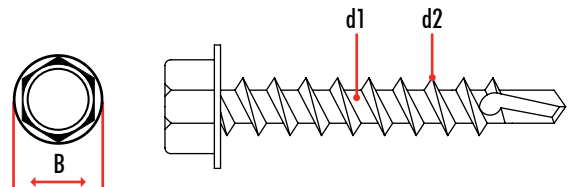
| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|---------------|---------------|---------------------|-------------------|
| 08100H3 | #8x1" | 25 mm | 7.5 M | 38.00(lbs) |
| 08100HA | #8x1" | 25 mm | 7.5 M | 38.00(lbs) |
| 08125H3 | #8x1-1/4" | 32 mm | 5 M | 35.00(lbs) |
| 08050H3 | #8x1/2" | 13 mm | 15 M | 37.00(lbs) |
| 08200H3 | #8x2" | 51 mm | 3 M | 33.00(lbs) |
| 08075H3 | #8x3/4" | 19 mm | 10 M | 42.00(lbs) |
| 08058H3 | #8x5/8" | 16 mm | 10 M | 37.00(lbs) |
| 10100H3 | #10x1" | 25 mm | 5 M | 37.00(lbs) |
| 10150H3 | #10x1-1/2" | 38 mm | 3.5 M | 35.00(lbs) |
| 10125H3 | #10x1-1/4" | 32 mm | 5 M | 33.00(lbs) |
| 10050H3 | #10x1/2" | 13 mm | 7.5 M | 37.00(lbs) |
| 10200H3 | #10x2" | 51 mm | 3 M | 31.00(lbs) |
| 10300H3 | #10x3" | 76 mm | 3 M | 38.00(lbs) |
| 10075H3 | #10x3/4" | 19 mm | 5 M | 30.00(lbs) |
| 10058H3 | #10x5/8" | 16 mm | 7.5 M | 41.00(lbs) |
| 12100H3 | #12x1" | 25 mm | 3.5 M | 40.00(lbs) |
| 12150H3 | #12x1-1/2" | 38 mm | 2.5 M | 35.00(lbs) |
| 12125H3 | #12x1-1/4" | 32 mm | 3.5 M | 34.00(lbs) |
| 12250H3 | #12x2-1/2" | 63 mm | 1.5 M | 30.00(lbs) |
| 12300H3 | #12x3" | 76 mm | 1 M | 22.00(lbs) |
| 12350H3 | #12x3-1/2" | 89 mm | 1 M | 21.00(lbs) |
| 12075H3 | #12x3/4" | 19 mm | 5 M | 40.00(lbs) |
| 12075HA | #12x3/4" | 19 mm | 5 M | 40.00(lbs) |
| 14100H3 | #14x1" | 25 mm | 3.5 M | 52.00(lbs) |
| 14150H3 | #14x1-1/2" | 38 mm | 2 M | 33.00(lbs) |
| 14125H3 | #14x1-1/4" | 32 mm | 2 M | 35.00(lbs) |
| 14200H3 | #14x2" | 51 mm | 1.5 M | 34.00(lbs) |
| 14250H3 | #14x2-1/2" | 63 mm | 2 M | 33.00(lbs) |
| 14300H3 | #14x3" | 76 mm | 2 M | 22.00(lbs) |
| 14075H3 | #14x3/4" | 19 mm | 5 M | 61.00(lbs) |
| 14400H4 | #14x4" | 102 mm | .5 M | 21.00(lbs) |
| 1224150H4RG | #12-24x1-1/2" | 38 mm | 2.5 M | 33.00(lbs) |
| 1224125H4 | #12-24x1-1/4" | 32 mm | 3 M | 50.00(lbs) |
| 1224200H4RG | #12-24x2-1/2" | 63 mm | 2 M | 36.00(lbs) |
| 122478H4 | #12-24x7/8" | 22.23 mm | 3.5 M | 50.00(lbs) |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|--------------|--------------------|-------------------|--------------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD® | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD® | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |
| 12 | 3 | 0.110-0.210 | 20-8 |
| 14 | 3 | 0.110-0.220 | 20-8 |
| 12 | 4 | 0.175-0.220 | 18-0 |
| 14 | 4 | 0.175-0.250 | 18-1/4" |
| 12 | 5 | 0.250-0.500 | 18-1/2" |

Heavy Gauge Metal (20ga or thicker)
Product #246
Hex Head DRIVALL® Self Drilling (3 OF 3)

PULL-OUT TEST DATA

| Screw Gauge | TPI | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-----|-------------|----------------|--------------|
| #8 | 18 | 14 | 450 | 1012 |
| | | 16 | 442 | 955 |
| | | 18 | 340 | 1045 |
| | | 20 | 265 | 680 |
| #10 | 16 | 14 | 657 | 1395 |
| | | 16 | 542 | 1332 |
| | | 18 | 415 | 1072 |
| | | 20 | 367 | 675 |
| #12 | 14 | 14 | 577 | 1827 |
| | | 16 | 582 | 1377 |
| | | 18 | 400 | 1087 |
| | | 20 | 350 | 670 |
| #14 | 14 | 14 | 602 | 1995 |
| | | 16 | 560 | 1485 |
| | | 18 | 460 | 1127 |
| | | 20 | 240 | 748 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER® Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes. ~

SHEET STEEL GAUGES

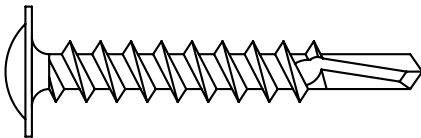
| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 12 | 0.1017" | 2.6 mm |
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

PRODUCT DIMENSIONS (MILLIMETERS)

| | Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-----|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | | 8.18 | 6.20 | 3.28 | 2.85 | 4.05 | | 18 |
| | | 8.84 | 6.35 | 3.32 | 3.05 | 4.25 | | |
| #10 | | 9.75 | 7.75 | 3.78 | 3.25 | 4.62 | | 16 |
| | | 10.50 | 7.93 | 3.82 | 3.45 | 4.82 | | |
| #12 | | 10.10 | 7.75 | 4.38 | 3.99 | 5.31 | | 14 |
| | | 11.00 | 7.93 | 4.42 | 4.17 | 5.46 | | |
| #14 | | 12.20 | 9.32 | 5.08 | 4.70 | 6.10 | | 14 |
| | | 13.20 | 9.52 | 5.12 | 4.88 | 6.25 | | |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)**Product #248****Wafer Head DRIVALL® Self Drilling** (1 OF 3)**Attaches metal lath to 20-8 ga. steel studs and framing.****Finish - Clear Zinc, GRABBERGARD, GRABBERGARD Gray and Gray Phosphate****Wafer Head****S-12 Drill Point****#3 Drill Point****#4 Drill Point****#2 Phillips Drive****APPLICATIONS**

- ▶ Self-furring metal lath through gypsum sheathing to steel studs and track, 20-8 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Steel studs to track, 20-8 gauge
- ▶ Metal K-lath, wire lath, wood grounds to lathers channel structural studs and metal decks
- ▶ Other metal-to-metal attachments, 20-8 gauge

PRODUCT FEATURES

- ▶ Self-tapping drill point is designed for penetration into heavy gauge metal
- ▶ Wafer head provides a greater bearing surface with a low profile head exposure
- ▶ Heavier shank ensures entry in clips of hard steel
- ▶ Also available with ultra fast drill point

SPECIFICATIONS

- ▶ Gauge – #8 and #10 and #12
- ▶ Lengths – 1/2" to 3"
- ▶ Head Type – Wafer Type A
- ▶ Thread Type – Single Lead
- ▶ Recess Type – #2 Phillips
- ▶ Finish – Clear Zinc, Gray Phosphate or GRABBERGARD
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280 and ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Wafer head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #248
Wafer Head DRIVALL® Self Drilling (2 OF 3)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 235Z | #8x1" | 25 mm | 5 M | 27.00(lbs) |
| 35Z | #8x1" | 25 mm | 5 M | 27.00(lbs) |
| 36RG | #8x1-1/4" | 32 mm | 5 M | 32.00(lbs) |
| 36Z | #8x1-1/4" | 32 mm | 5 M | 32.00(lbs) |
| 236Z | #8x1-1/4" | 32 mm | 5 M | 32.00(lbs) |
| 237Z | #8x1-5/8" | 41 mm | 4 M | 31.00(lbs) |
| 37RG | #8x1-5/8" | 41 mm | 4 M | 31.00(lbs) |
| 37Z | #8x1-5/8" | 41 mm | 4 M | 31.00(lbs) |
| 34RG | #8x1/2" | 13 mm | 10 M | 37.00(lbs) |
| 34 | #8x1/2" | 13 mm | 10 M | 37.00(lbs) |
| 34Z | #8x1/2" | 13 mm | 10 M | 37.00(lbs) |
| 234FZ | #8x1/2" | 13 mm | 10 M | 38.00(lbs) |
| 234 | #8x1/2" | 13 mm | 10 M | 38.00(lbs) |
| 234Z | #8x1/2" | 13 mm | 10 M | 37.00(lbs) |
| 376Z | #8x2" | 51 mm | 2.5 M | 31.00(lbs) |
| 238Z | #8x2-1/2" | 63 mm | 2.5 M | 31.00(lbs) |
| 39Z | #8x3" | 76 mm | 1 M | 31.00(lbs) |
| 234Z10CW | #10x3/4" | 19 mm | 5 M | 34.00(lbs) |
| 236Z10CW | #10x1-1/4" | 19 mm | 3.5 M | 34.00(lbs) |
| 34Z10CW | #10x3/4" | 19 mm | 5 M | 34.00(lbs) |
| 234Z12CW | #12x3/4" | 19 mm | 5 M | 34.00(lbs) |
| 34Z12CW | #12x3/4" | 19 mm | 5 M | 34.00(lbs) |

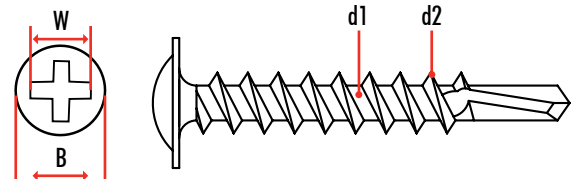
*1lb Box and 5lb Box screw packaging option available on selected items.

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 12 | 0.1017" | 2.6 mm |
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 11.1 | 2.20 | #2 | 3.3 | 2.95 | 4.15 | 18 |
| #10 | 11.1 | 2.20 | #2 | 3.8 | 3.35 | 4.72 | 16 |
| #12 | 11.1 | 2.20 | #2 | 3.8 | 4.09 | 5.39 | 14 |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |
| 12 | 3 | 0.110-0.210 | 20-8 |
| 14 | 3 | 0.110-0.220 | 20-8 |
| 12 | 4 | 0.175-0.220 | 18-0 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280 and ESR 1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)

Product #248
Wafer Head DRIVALL® Self Drilling (3 OF 3)

PULL-OUT TEST DATA

| Screw Gauge | TPI | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-----|-------------|----------------|--------------|
| #8 | 18 | 14 | 684 | 1251 |
| | | 16 | 576 | 1239 |
| | | 18 | 300 | 702 |
| | | 20 | 213 | 456 |
| #10 | 16 | 12 | 1284 | 1611 |
| | | 14 | 819 | 1776 |
| | | 16 | 654 | 1527 |
| | | 18 | 339 | 756 |
| | | 20 | 246 | 492 |
| #12 | 14 | 12 | 1214 | 2760 |
| | | 14 | 851 | 1800 |
| | | 16 | 675 | 1290 |
| | | 18 | 373 | 924 |

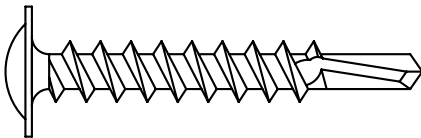
**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER® Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------|--------------------|-------------------|--------------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280 and ESR 1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)**Product #248A****Wafer Head DRIVALL® Self Drilling** (1 OF 2)**Attaches metal lath to 20-8 ga. steel studs and framing.****Finish - Clear Zinc**Wafer
Head#3
Drill Point#2 Phillips
Drive**APPLICATIONS**

- ▶ Self-furring metal lath through gypsum sheathing to steel studs and track, 20-8 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Steel studs to track, 20-8 gauge
- ▶ Metal K-lath, wire lath, wood grounds to lathers channel structural studs and metal decks
- ▶ Other metal-to-metal attachments, 20-8 gauge

SPECIFICATIONS

- ▶ Gauge — #8
- ▶ Lengths — 1/2"
- ▶ Head Type — Wafer Type A
- ▶ Thread Type — Single Lead
- ▶ Recess Type — #2 Phillips
- ▶ Finish — Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280 and ESR-1271.

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into heavy gauge metal
- ▶ Wafer head provides a greater bearing surface with a low profile head exposure
- ▶ Heavier shank ensures entry in clips of hard steel
- ▶ Also available with ultra fast drill point

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Wafer head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)

Product #248A
Wafer Head DRIVALL® Self Drilling (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 34ZA | #8x1/2" | 13 mm | 10 M | 40.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PULL-OUT TEST DATA

| Screw Gauge | TPI | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-----|-------------|----------------|--------------|
| #8 | 18 | 14 | 450 | 1012 |
| | | 16 | 442 | 995 |
| | | 18 | 340 | 1045 |
| | | 20 | 265 | 680 |

**GRABBER® fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER® Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

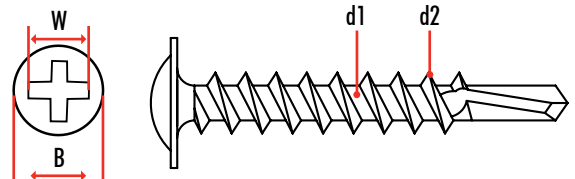
| Finish | Test | Standard/Protocol | Results |
|------------|--------------------|-------------------|-----------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 12 | 0.1017" | 2.6 mm |
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

PRODUCT DIMENSIONS (MILLIMETERS)

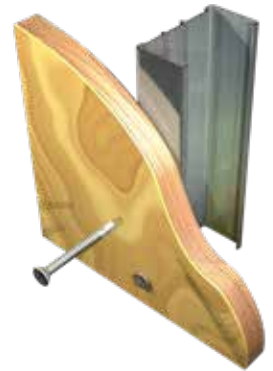
| | Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-----|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 18 | 10.80 | 2.00 | #2 | 3.28 | 2.85 | 4.05 | 18 |
| | | 11.40 | 2.40 | | 3.32 | 3.05 | 4.25 | |
| #10 | 16 | 10.80 | 2.00 | #2 | 3.78 | 3.25 | 4.62 | 16 |
| | | 11.40 | 2.40 | | 3.82 | 3.45 | 4.82 | |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, as referenced in ICCES report ER-5280 and ESR 1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)**Product #250****Flat Head DRIVALL® Pilot Point Self Drilling**
(collated) (1 OF 2)**Self drilling fastener for attaching 3/8" to 1" plywood or wood to 20-8 gauge steel****Finish - Clear Zinc and GRABBERGARD**

Flat Head

#3
Drill Point

LOX #2

#2 Phillips
Drive**APPLICATIONS**

- ▶ Attaching 3/8" to 1" plywood to steel joists and frames, 20-8 gauge steel
- ▶ Wood to 20-8 gauge steel applications
- ▶ Dinsglass products to steel

PRODUCT FEATURES

- ▶ Superfast #3 drill point
- ▶ Flat head seats flush with fastening surface

SPECIFICATIONS

- ▶ Gauge – #8
- ▶ Lengths – 1-5/16" and 1-15/16"
- ▶ Head Type – Flat
- ▶ Thread Type – Single Lead
- ▶ Recess Type – #2 Phillips and #2 LOX®
- ▶ Finish – Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #250
Flat Head DRIVALL® Pilot Point Self Drilling (collated) (1 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|--------------|--------------|---------------|---------------------|-------------------|
| CM175SDZJBW | #8x1-3/4" | 45 mm | 1000 | 9.00(lbs) |
| CM158SDZJBW | #8x1-5/8" | 41 mm | 1000 | 8.00(lbs) |
| CMG158SD | #8x1-5/8" | 41 mm | 1000 | 8.00(lbs) |
| CM200SDZJBW | #8x2" | 51 mm | 1000 | 10.00(lbs) |
| CM10178JBWRG | #10x1-7/8" | 47 mm | 1000 | 11.00(lbs) |

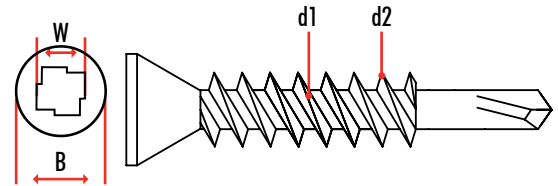
*Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 10.80 | 2.00 | #2 | 3.28 | 2.85 | 4.05 | 18 |
| | 11.40 | 2.40 | | 3.32 | 3.05 | 4.25 | |
| #10 | 10.80 | 2.00 | #2 | 3.78 | 3.25 | 4.62 | 16 |
| | 11.40 | 2.40 | | 3.82 | 3.45 | 4.82 | |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)
Product #250
Flat Head DRIVALL® Pilot Point Self Drilling (3 OF 3)
PULL-OUT TEST DATA

| Screw Gauge | TPI | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-----|-------------|----------------|--------------|
| #8 | 18 | 14 | 450 | 1012 |
| | | 16 | 442 | 995 |
| | | 18 | 340 | 1045 |
| | | 20 | 265 | 680 |
| #10 | 16 | 12 | 1082 | 1660 |
| | | 14 | 657 | 1395 |
| | | 16 | 542 | 1332 |
| | | 18 | 415 | 1072 |
| | | 20 | 367 | 675 |
| #12 | 14 | 12 | 975 | 2035 |
| | | 14 | 577 | 1827 |
| | | 16 | 582 | 1377 |
| | | 18 | 400 | 1087 |
| | | 20 | 350 | 670 |
| #14 | 14 | 12 | 965 | 2425 |
| | | 14 | 602 | 1995 |
| | | 16 | 560 | 1485 |
| | | 18 | 460 | 1127 |
| | | 20 | 240 | 748 |

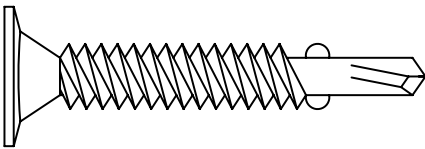
**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.

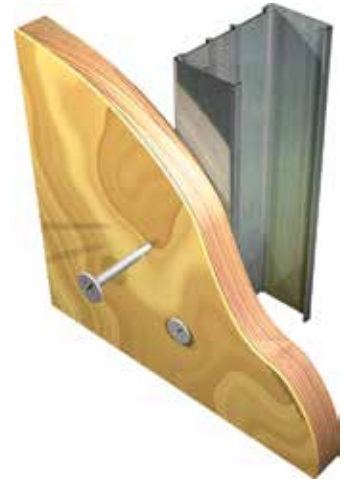


Heavy Gauge Metal (20ga or thicker)**Product #252****Thin Wafer Head DRIVALL® Winged Self Drilling** (1 OF 2)**Self drilling fastener for attaching 3/8" to 1" plywood or wood to 20-8 gauge steel****Finish - Clear Zinc and GRABBERGARD®**

Wafer Head



Drill Point

#2 Phillips
Drive**APPLICATIONS**

- ▶ Attaching 3/16" to 3/4" plywood to 20-8 gauge steel

PRODUCT FEATURES

- ▶ 24 Threads per inch
- ▶ Superfast #3 drill point
- ▶ Thin Wafer head provides a flush finished surface
- ▶ Winged point creates pilot hole through the plywood

SPECIFICATIONS

- ▶ Gauge — #10
- ▶ Length — 1-7/16"
- ▶ Head Type — Wafer
- ▶ Thread Type — Single Lead
- ▶ Recess Type — #2 Phillips
- ▶ Finish — Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Wafer head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)

Product #252
Thin Wafer Head DRIVALL® Winged Self Drilling (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 101716 | #10x1-7/16" | 37 mm | 4 M | 39.00(lbs) |
| 101716W3 | #10x1-7/16" | 37 mm | 4 M | 31.00(lbs) |
| 101716W3RG | #10x1-7/16" | 37 mm | 4 M | 39.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #10 | 11.00 | 2.59 | #2 | 4.05 | 0 | 4.65 | 24 |
| | 12.00 | 3.17 | | 4.09 | 0 | 4.82 | |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |

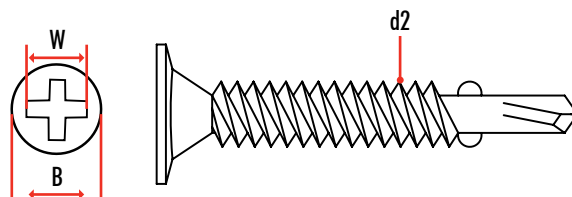
STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|-------------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #10 | 14 | 532 | 1704 |
| | 16 | 338 | 1379 |

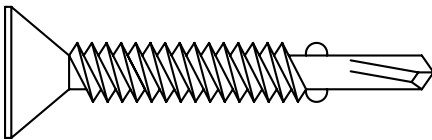
**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 10 | 3 | 0.110-0.175 | 20-8 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C954, ASTM C1513, as referenced in ICC ESR report ER 5280 ESR-1271, and are approved for use in structures governed by the International Building Code 2006, 2009, 2012, and 2015 International Residential Building Code 2006, 2009, 2012 and 2015.

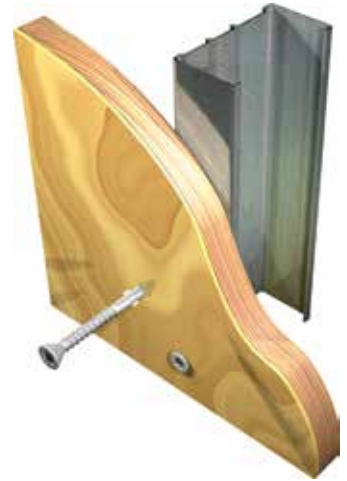


Heavy Gauge Metal (20ga or thicker)**Product #254****Flat Head DRIVALL® Winged Self Drilling** (1 OF 3)**Self drilling fastener for attaching 3/8" to 1" plywood or wood to 20-8 gauge steel****Finish - Clear Zinc and GRABBERGARD®**

Flat Head



Drill Point

#3 Phillips
Drive**APPLICATIONS**

- ▶ Attaching 1" or thicker plywood to 20-8 gauge metal

PRODUCT FEATURES

- ▶ 24 Threads per inch
- ▶ Superfast #3 drill point
- ▶ Flat head provides a flush finished surface
- ▶ Winged point creates pilot hole through the plywood

SPECIFICATIONS

- ▶ Gauge – #12
- ▶ Lengths – 2" to 3-3/4"
- ▶ Head Type – Flat
- ▶ Thread Type – Single Lead
- ▶ Recess Type – #3 Phillips
- ▶ Finish – Yellow Zinc, Clear Zinc, or GrabberGard
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)

Product #254
Flat Head DRIVALL® Winged Self Drilling (2 OF 3)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| P81516F3 | #8x1-15/16" | 49 mm | 4 M | 31.00(lbs) |
| P8516F3 | #8x1-5/16" | 34 mm | 6 M | 30.00(lbs) |
| 12200FW3 | #12x2" | 51 mm | 2 M | 33.00(lbs) |
| 12200FW3RG | #12x2" | 51 mm | 2 M | 34.00(lbs) |
| 12250FW3 | #12x2-1/2" | 63 mm | 1.5 M | 30.00(lbs) |
| CC12250LYZ | #12x2-1/2" | 63 mm | 1 M | 30.00(lbs) |
| 12250FW3RG | #12x2-1/2" | 63 mm | 1.5 M | 31.00(lbs) |
| 12275FW3 | #12x2-1/2" | 70 mm | 1 M | 33.00(lbs) |
| 12225FW3 | #12x2-1/4" | 57 mm | 2 M | 30.00(lbs) |
| 12275FW3RG | #12x2-3/4" | 70 mm | 1 M | 25.00(lbs) |
| 14275FW3 | #14x2-3/4" | 70 mm | 1 M | 10.00(lbs) |
| 14350FW4RG | #14x3-1/2" | 89 mm | .5 M | 34.00(lbs) |
| 14325FW4RG | #14x3-1/4" | 83 mm | .9 M | 34.00(lbs) |
| 14375FW4RG | #14x3-3/4" | 95 mm | .5 M | 34.00(lbs) |

*5lb Box and Collated screw packaging option available on selected items.

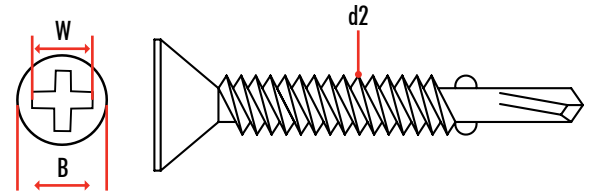
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Shear (lbs.) | Pull Out | Pull Over |
|-------------|-------------|--------------|----------|-----------|
| #12 | 12 | 4,946 | 1,470 | 2,811 |
| | 14 | 4,925 | 1,487 | 2,806 |
| | 16 | 4,997 | 1,449 | 2,804 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|-------------------------|
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |
| 12 | 3 | 0.110-0.210 | 20-8 |
| 14 | 3 | 0.110-0.220 | 20-8 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)

Product #254
Flat Head DRIVALL® Winged Self Drilling (3 OF 3)

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #12 | 9.88 | 2.95 | #3 | 4.68 | 0 | 5.31 | 24 |
| | 11.10 | 3.58 | | 4.72 | 0 | 5.48 | |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 12 | 0.1017" | 2.6 mm |
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |

Ω 3 Allowable Load

| Screw Gauge | Metal Gauge | Shear (lbs.) | Pull Out | Pull Over |
|-------------|-------------|--------------|----------|-----------|
| #12 | 12 | 1,649 | 490 | 937 |
| | 14 | 1,642 | 496 | 935 |
| | 16 | 1,666 | 483 | 935 |

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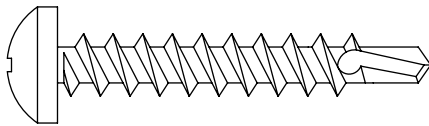
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Heavy Gauge Metal (20ga or thicker)**Product #258****Pan Head DRIVALL® Self Drilling** (1 OF 2)

Self drilling screws for attaching fixtures, backup plates, and door frames to 20-12 gauge steel, or any other heavy gauge metal-to-metal applications

Finish - Black/Gray Phosphate and Clear Zinc



Pan
Head



Drill Point



#2 Phillips
Drive

**APPLICATIONS**

- ▶ Steel studs to track, 20-12 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Other metal-to-metal attachments, 20-12 gauge

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into 20-12 gauge steel
- ▶ #2 Phillips recess drive
- ▶ Pan head provides a flat bearing surface
- ▶ Also available with #3 point

SPECIFICATIONS

- ▶ Gauge – #8 to #10
- ▶ Lengths – 1/2" to 1"
- ▶ Head Type – Pan
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Single Lead
- ▶ Finish – Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #258
Pan Head DRIVALL® Self Drilling (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 08100P | #8x1" | 25 mm | 7.5 M | 37.00(lbs) |
| 08075P | #8x3/4" | 19 mm | 10 M | 30.00(lbs) |
| 10050P | #10x1/2" | 13 mm | 5 M | 34.00(lbs) |
| 10058P3 | #10x5/8" | 16 mm | 7.5 M | 38.00(lbs) |

*Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 7.77 | 1.80 | #2 | 3.28 | 2.85 | 4.05 | 18 |
| | 8.18 | 2.46 | | 3.32 | 3.05 | 4.25 | |
| #10 | 9.07 | 2.26 | #2 | 3.78 | 3.25 | 4.62 | 16 |
| | 9.47 | 2.87 | | 3.82 | 3.45 | 4.82 | |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

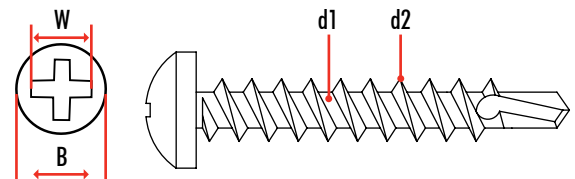
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #8 | 14 | 450 | 1012 |
| | 16 | 442 | 955 |
| | 18 | 340 | 1045 |
| | 20 | 265 | 680 |
| #10 | 16 | 542 | 1332 |
| | 18 | 415 | 1072 |
| | 20 | 367 | 675 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|----------------------|--------------------|-------------------|-----------------------|
| Black/Gray Phosphate | Salt Spray Results | ASTM B117 | 24 hours no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |
| 10 | 3 | 0.110-0.175 | 20-8 |

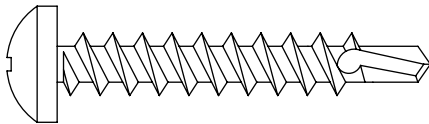
All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Heavy Gauge Metal (20ga or thicker)**Product #258A****Pan Head DRIVALL® Self Drilling** (1 OF 2)

Self drilling screws for attaching fixtures, backup plates, and door frames to 14 – 20 gauge steel, or any other heavy gauge metal-to-metal applications

Finish - Clear Zinc



Pan
Head



Drill Point



#2 Phillips
Drive

APPLICATIONS

- ▶ Steel studs to track, 14 – 20 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Other metal-to-metal attachments, 14 – 20 gauge

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into 14 – 20 gauge steel
- ▶ #2 Phillips recess drive
- ▶ Pan head provides a flat bearing surface
- ▶ Also available with #3 point

SPECIFICATIONS

- ▶ Gauge – #8 to #10
- ▶ Lengths – 1/2" to 1"
- ▶ Head Type – Pan
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Single Lead
- ▶ Finish – Clear Zinc
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)
Product #258A
Pan Head DRIVALL® Self Drilling (2 OF 2)
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 19ZA | #6x7/16" | 11 mm | 15 M | 44.00(lbs) |
| 19A | #6x7/16" | 11 mm | 15 M | 44.00(lbs) |
| 20ZA | #8x1/2" | 13 mm | 10 M | 33.00(lbs) |
| 20A | #8x1/2" | 13 mm | 10 M | 33.00(lbs) |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 7.77 | 1.80 | #2 | 3.28 | 2.85 | 4.05 | 18 |
| | 8.18 | 2.46 | | 3.32 | 3.05 | 4.25 | |
| #10 | 9.07 | 2.26 | #2 | 3.78 | 3.25 | 4.62 | 16 |
| | 9.47 | 2.87 | | 3.82 | 3.45 | 4.82 | |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

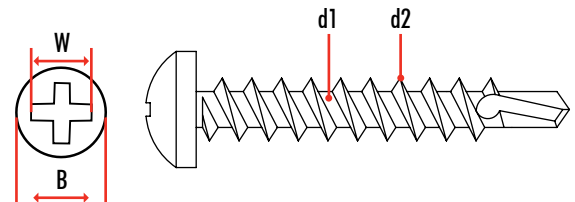
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #8 | 14 | 450 | 1012 |
| | 16 | 442 | 955 |
| | 18 | 340 | 1045 |
| | 20 | 265 | 680 |
| #10 | 16 | 542 | 1332 |
| | 18 | 415 | 1072 |
| | 20 | 367 | 675 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|------------|--------------------|-------------------|-----------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 6 | 3 | 0.090-0.110 | 20-12 |
| 8 | 3 | 0.100-0.140 | 20-12 |

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Heavy Gauge Metal (20ga or thicker)**Product #260****Flat Pan Head DRIVALL® Self Drilling #3 Point** (1 OF 3)

Self drilling screws for framing 20-8 gauge steel to steel

Finish - Yellow Zinc, Clear Zinc, GRABBERGARD® and NanoGard



Pan
Head



Drill Point



LOX #2

APPLICATIONS

- ▶ Pre-fabrication of trusses
- ▶ Steel studs to track, 20-8 gauge
- ▶ Steel studs to door frame jamb anchor clips
- ▶ Heavy gauge steel to steel framing

PRODUCT FEATURES

- ▶ Self tapping drill point is designed for penetration into 20-8 gauge steel
- ▶ LOX®
- ▶ Pan head provides a flat bearing surface
- ▶ Also available with #3 point

SPECIFICATIONS

- ▶ Gauge – #10, #11, and #12
- ▶ Length – 5/8" to 1-1/4"
- ▶ Head Type – Flat Pan
- ▶ Recess Type – LOX®
- ▶ Thread Type – Single Lead
- ▶ Finish – Clear Zinc and GrabberGard
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ The Flat Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)

Product #260
Flat Pan Head DRIVALL® Self Drilling #3 Point (2 OF 3)

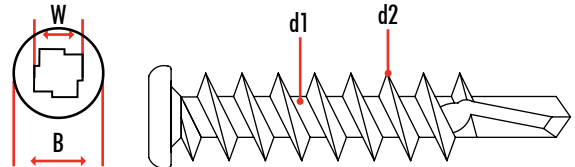
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|--------------|--------------|---------------|---------------------|-------------------|
| FP101875JBWZ | #10x3/4" | 19 mm | 8 M | 44.00(lbs) |
| FP101875L2N | #10x3/4" | 19 mm | 8 M | 44.00(lbs) |
| FP101875LYZ | #10x3/4" | 19 mm | 8 M | 42.00(lbs) |
| FP102275LYZ | #10x3/4" | 19 mm | 8 M | 44.00(lbs) |
| FP101858JBWZ | #10x5/8" | 16 mm | 10 M | 44.00(lbs) |
| SP12125JBWZ | #12x1-1/4" | 32 mm | 3.5 M | 44.00(lbs) |
| FP121878JBWZ | #12x7/8" | 22 mm | 6 M | 44.00(lbs) |
| FP121878LYZ | #12x7/8" | 22 mm | 6 M | 44.00(lbs) |
| FP11118L2YZ | #11x1-1/8" | 28 mm | 5 M | 44.00(lbs) |

*Collated screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 10 | 3 | 0.110-0.175 | 20-8 |
| 12 | 3 | 0.110-0.210 | 20-8 |

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Heavy Gauge Metal (20ga or thicker)
Product #260
Flat Pan Head DRIVALL® Self Drilling #3 Point (3 OF 3)

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #10 | 9.25 | 0 | LOX® | 3.8 | 3.3 | 4.71 | 18 |
| #12 | 9.25 | 0 | LOX® | 4.3 | 4.1 | 5.36 | 18 |

SHEET STEEL GAUGES

| Gauge No. | Decimal Equivalent | Millimeter Equivalent |
|-----------|--------------------|-----------------------|
| 14 | 0.0713" | 1.8 mm |
| 16 | 0.0566" | 1.5 mm |
| 18 | 0.0451" | 1.2 mm |
| 20 | 0.0396" | 1 mm |

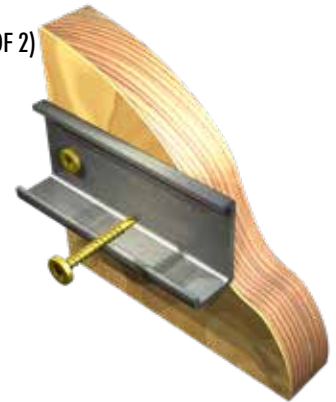
PULL-OUT TEST DATA

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #10 | 12 | 1212 | 1758 |
| | 14 | 918 | 1662 |
| | 16 | 672 | 1455 |
| | 18 | 312 | 756 |
| | 20 | 240 | 492 |
| #12 | 12 | 1345 | 2260 |
| | 14 | 853 | 2192 |
| | 16 | 650 | 1632 |
| | 18 | 335 | 785 |
| | 20 | 220 | 525 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

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Heavy Gauge Metal (20ga or thicker)**Product #266****GRABBER XteK® Metal to Wood Screws, LOX® Drive** (1 OF 2)**Designed specifically for the application of metal to wood framing members.****Finish - Yellow Zinc, Galvanized and GRABBERGARD**High Pan
Head

Drill Point



LOX® #3

APPLICATIONS

- ▶ Designed specifically for the application of metal to wood framing members.

PRODUCT FEATURES

- ▶ Modified Pan Head with LOX3 drive for Maximum torsional Torque
- ▶ Alternating Threads for maximum holding power in the wood member
- ▶ Self drilling, reduced drill point for penetration of 20-8 gauge steel

SPECIFICATIONS

- ▶ Gauge - #11
- ▶ Lengths - 1-1/8" to 2-1/2"
- ▶ Head Type - Modified Pan Head
- ▶ Thread Type - Double Lead
- ▶ Recess Type - LOX®
- ▶ Finish - Yellow Zinc, Galvanized or GrabberGard
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 2,500.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Heavy Gauge Metal (20ga or thicker)

Product #266
GRABBER XteK® Metal to Wood Screws, LOX® Drive (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| DMWH138 | #11x1-3/8" | 35 mm | 3.5 m | 39.00(lbs) |
| DMWH138MG | #11x1-3/8" | 35 mm | 3.5 m | 39.00(lbs) |
| DMWH238G2 | #11x2-3/8" | 60 mm | 2 m | 39.00(lbs) |

*Collated screw packaging option available on selected items.

Withdrawal Test

| Wood Type | Average Load (lbs.) |
|-------------|---------------------|
| Sugar Pine | 455 |
| Douglas Fir | 582 |

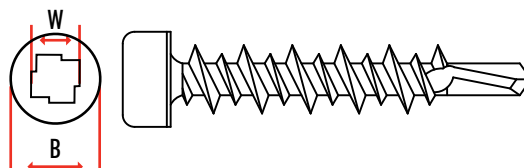
Shear Test Data**

| Screw Gauge | Metal Gauge | Shear (lbs.) |
|-------------|-------------|--------------|
| #11 | 12 | 738 |
| | 14 | 677 |
| | 16 | 845 |
| | 18 | 603 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

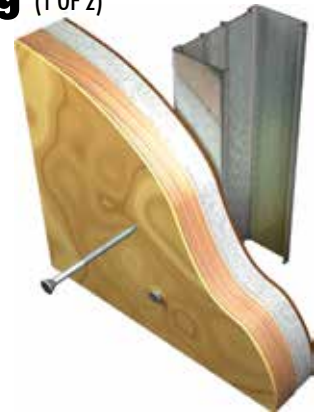
| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| Clear Zinc | Salt Spray Results | ASTM B117 | 24 hours, no red rust |
| Yellow Zinc | Salt Spray Results | ASTM B117 | 48 hours, no red rust |
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018,2.0L | 15 cycles, no red rust |


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 10 | 3 | 0.110-0.175 | 20-8 |
| 12 | 3 | 0.110-0.210 | 20-8 |

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Stainless Steel**Product #214SS****Trim Head 304 Stainless Steel STREAKER® Self tapping** (1 OF 2)**Self tapping screw for attaching wood trim over single or double-layer gypsum board to steel.****Finish - 304 Stainless Steel**Trim
Head23° Streaker®
Point#1 Square
Drive**APPLICATIONS**

- ▶ Wood trim over single and double-layer gypsum board to 25-20 gauge steel studs and track
- ▶ Wood trim over single and double-layer gypsum board to wood studs

PRODUCT FEATURES

- ▶ A fine thread screw for finishing applications
- ▶ Trim to Steel or Wood framing
- ▶ Non- Magnetic
- ▶ 15 threads per inch for wood or metal
- ▶ #1 square recess drive

SPECIFICATIONS

- ▶ Gauge – #7 and #8
- ▶ Lengths – 1-5/8" to 3"
- ▶ Head Type – Trim
- ▶ Recess Type – #1 Square
- ▶ Thread Type – Double Lead
- ▶ Finish – 304 Stainless Steel
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Trim head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Stainless Steel**Product #214SS****Trim Head 304 Stainless Steel STREAKER® Self tapping** (2 OF 2)**PRODUCT SIZES AND ORDERING INFORMATION**

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| 17SSQ | #7x1-5/8" | 41 mm | 10 M | 49.00(lbs) |
| 18SSQ | #7x2-1/4" | 57 mm | 5 M | 34.00(lbs) |
| 17S76SSQ | #8x3" | 76 mm | 2 M | 22.00(lbs) |

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #7 | 5.30 | 1.20 | #1 | 2.93 | 2.40 | 3.75 | 15 |
| | 5.80 | 1.50 | | 2.97 | 2.55 | 3.90 | |
| #8 | 5.30 | 1.20 | #1 | 3.18 | 2.80 | 4.00 | 15 |
| | 5.80 | 1.50 | | 3.22 | 3.00 | 4.20 | |

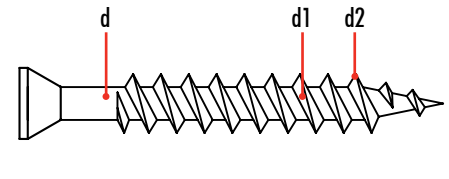
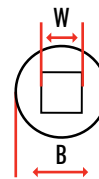
Pull-out Test Data**

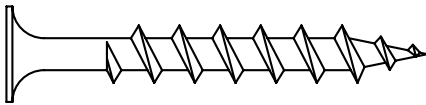
| Gauge | 2x2 Douglas | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|-------------|-------------|----------------|------------|--------------------|
| #7 | 428 | 337 | 322 | 197 | 235 |
| #8 | 428 | 515 | 341 | 274 | 242 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|---------------------|--------------------|-------------------|--------------------------|
| 304 Stainless Steel | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |



Stainless Steel**Product #230SS****Bugle Head GRABBER® Stainless Steel** (1 OF 2)**Coarse thread stainless steel fasteners for attaching wood or drywall to wood****Finish - 305 Stainless Steel****Bugle
Head****GRABBER
Point****#2 Phillips
Drive****APPLICATIONS**

- ▶ 3/8", 1/2", and 5/8" single-layer gypsum board to wood studs and joists
- ▶ 1/2" and 5/8" double-layer gypsum board to wood studs and joists
- ▶ Insulation to wood
- ▶ OSB or plywood to wood
- ▶ Wood to wood applications

PRODUCT FEATURES

- ▶ Superior holding power and ease of penetration
- ▶ A coarse thread screw for general interior applications
- ▶ 8 threads per inch
- ▶ Extra sharp, single lead 23° GRABBER point, designed to penetrate quickly and easily
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge – #6 to #10
- ▶ Lengths – 1" to 4"
- ▶ Head Type – Bugle
- ▶ Recess Type – #2 Phillips
- ▶ Thread Type – Single Lead
- ▶ Finish – Gray Phosphate. Also available in Yellow
- ▶ Zinc and GRABBERGARD™
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Bugle head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ For wood to wood connections, minimum penetration should be 7 diameters (e.g. 1-1/4" for #8 fastener)

Stainless Steel

Product #230SS

Bugle Head GRABBER® Stainless Steel (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
|-------------|--------------|---------------|---------------------|-------------------|

| | | | | |
|-------|-----------|-------|-----|------------|
| STMRI | #6x1-1/4" | 32 mm | 5 M | 35.00(lbs) |
|-------|-----------|-------|-----|------------|

| | | | | |
|-----------|-----------|-------|-----|------------|
| 8300SS305 | #8x1-1/4" | 32 mm | 5 M | 39.00(lbs) |
|-----------|-----------|-------|-----|------------|

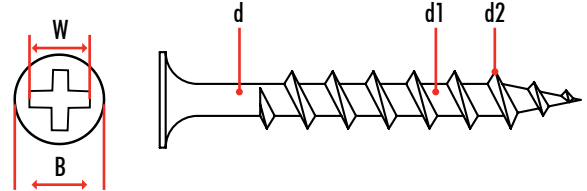
PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

Pull-out Test Data**

| Gauge | 2x2 Douglas | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|-------------|-------------|----------------|------------|--------------------|
| #6 | 339 | 309 | 186 | 222 | 224 |
| #8 | 528 | 500 | 396 | 246 | 324 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1002, as referenced in ICCES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Stainless Steel**Product #283SS****LOX® Stainless Steel Trim Head 316 Wood Screws** (1 OF 2)

Featuring LOX® advanced driver system engineered for high-torque applications. LOX® grabs hard and sinks even harder, giving you positive joint reliability with predictable results every time.

Finish - 316 Stainless Steel



Trim
Head



Type 17
Point



LOX #2

APPLICATIONS

- ▶ Use LOX® Wood Screws with Stainless for any Exterior Project, Decks, fences, Siding, Lattice, Docks & More

PRODUCT FEATURES

- ▶ LOX® 2 recess for a sure driving experience with exceptional bit life
- ▶ Flat head or trim head with countersinking nibs
- ▶ Type 17 self-drilling point
- ▶ Marine grade 316 stainless steel for maximum corrosion resistance
- ▶ Trim Head with countersinking nibs

SPECIFICATIONS

- ▶ Gauge - #8 and #10
- ▶ Length – 1-1/2" to 4"
- ▶ Head Type – Flat
- ▶ Recess Type – LOX® #2
- ▶ Thread Type – Single Lead
- ▶ Finish – 316 Stainless Steel
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and RPM range of 0 to 4,000.
- ▶ The Trim head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the wood a minimum of three thread pitches.

Stainless Steel
Product #283SS
LOX® Stainless Steel Trim Head 316 Wood Screws (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| W8158S316 | #8x1-5/8" | 41 mm | 2450 | 16.00(lbs) |
| W8214S316 | #8x2-1/4" | 57 mm | 1750 | 16.00(lbs) |
| W8300S316 | #8x3" | 76 mm | 1750 | 21.00(lbs) |

Pull-out Test Data**

| Gauge | 2x2 Douglas | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|----------------|----------------|-------------------|---------------|-----------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #10 | 404 | 402 | 396 | 314 | 319 |

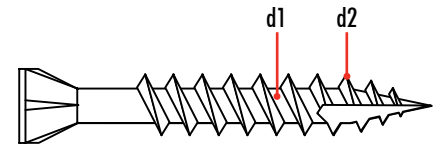
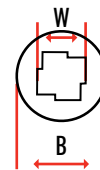
**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|---------------|-----------------|--------------------|----------------|-----------------|-----------------|-----|
| #7 | 5.30 | 1.20 | #1 | 2.93 | 2.40 | 3.75 | 15 |
| | 5.80 | 1.50 | | 2.97 | 2.55 | 3.90 | |
| #8 | 5.30 | 1.20 | #1 | 3.18 | 2.80 | 4.00 | 15 |
| | 5.80 | 1.50 | | 3.22 | 3.00 | 4.20 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|---------------------|--------------------|-------------------|--------------------------|
| 304 Stainless Steel | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Stainless Steel**Product #286SS****AnyDeck™ Stainless Steel Composite Screws, LOX® Drive** (1 OF 2)

Designed and engineered to work with all types of composite materials where surface mounted fasteners are recommended.

Finish - 316 Stainless Steel



Undercut
Head



QuickGrab
Point



LOX #2

APPLICATIONS

- ▶ All types of composite materials
- ▶ Outdoor projects such as decks, docks, fences, and gazebos

PRODUCT FEATURES

- ▶ Undercut head design leaves crisp clean finish with no mushrooms and burrs.
- ▶ Reverse buttress fine thread design gathers loose materials and pulls it down and out of sight.
- ▶ Coarse threads and extra sharp points provide great holding power and fast starts.

SPECIFICATIONS

- ▶ Gauge - #8 and #10
- ▶ Length – 1-1/2" to 4"
- ▶ Head Type – Flat
- ▶ Recess Type – LOX® #2
- ▶ Thread Type – Single Lead
- ▶ Finish – 316 Stainless Steel
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

Stainless Steel
Product #286SS
AnyDeck™ Stainless Steel Composite Screws, LOX® Drive (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| BC10250S | #10x2-1/2" | 63 mm | 2 M | 26.00(lbs) |
| BC10300S | #10x3" | 76 mm | 2 M | 32.00(lbs) |

Pull-out Test Data**

| Gauge | 2x2 Douglas | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|----------------|----------------|-------------------|---------------|-----------------------|
| #10 | 404 | 402 | 396 | 314 | 319 |

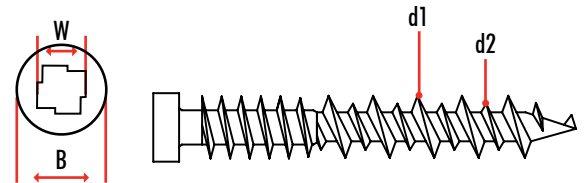
**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|---------------|-----------------|--------------------|----------------|-----------------|-----------------|-----|
| #10 | 8.50 | 2.87 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 3.30 | | 3.82 | 3.50 | 6.30 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|---------------------|--------------------|-------------------|--------------------------|
| 304 Stainless Steel | Salt Spray Results | ASTM B117 | 1,500 hours, no red rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Stainless Steel**Product #330****Flat Head Coarse, 316 Stainless T-17 Point, LOX® (1 OF 2)**

Use LOX® Wood Screws with Stainless for any Exterior Project, Decks, fences, Siding, Lattice, Docks & More.

Finish - 316 Stainless Steel



Flat Head
With Nibs



Type 17
Point



LOX #2

APPLICATIONS

- ▶ Any exterior project such as decks, fences, siding, lattice, docks and more.

PRODUCT FEATURES

- ▶ LOX® recess drive does not require a magnetic bit tip holder
- ▶ A superior, weather and element resistant screw
- ▶ The flat head is designed specifically for wood applications

SPECIFICATIONS

- ▶ Gauge - #8 - #10
- ▶ Length – 1-1/4" to 3"
- ▶ Head Type – Flat
- ▶ Recess Type – LOX® #2
- ▶ Thread Type – Single Lead
- ▶ Finish – 316 Stainless
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

Stainless Steel
Product #330
Flat Head Coarse, 316 Stainless T-17 Point, LOX® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| W10200S316 | #10x2" | 51 mm | 1750 | 20.00(lbs) |
| W10212S316 | #10x2-1/2" | 63 mm | 1750 | 24.00(lbs) |
| 10250L316 | #10x2-1/2" | 63 mm | 2.5 M | 36.00(lbs) |
| 10300L316 | #10x3" | 76 mm | 2 M | 33.00(lbs) |
| W10300S316 | #10x3" | 76 mm | 1750 | 28.00(lbs) |

*1lb Box, 5lb Box, Deck Pack and Collated screw packaging option available on selected items.

Pull-out Test Data**

| Gauge | 2x2 Douglas | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|----------------|----------------|-------------------|---------------|-----------------------|
| #10 | 404 | 402 | 396 | 314 | 319 |

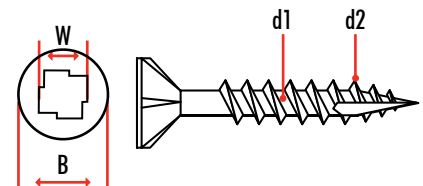
**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|---------------|-----------------|--------------------|----------------|-----------------|-----------------|-----|
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|---------------------|--------------------|-------------------|--------------------------|
| 316 Stainless Steel | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Stainless Steel**Product #331****Bugle Head Coarse, 304-305 Stainless, T-17 Point, Sqr Drv** (1 OF 2)**304-305 Stainless Steel screws for any Exterior Project, Decks, fences, Siding, Lattice, Docks & More.****Finish - 316 Stainless Steel****Bugle
Head****Type 17
Point****#1 Square
Drive****APPLICATIONS**

- ▶ Any exterior project such as decks, fences, siding, lattice, docks and more.

PRODUCT FEATURES

- ▶ Square recess creates a positive seat for driver
- ▶ A superior, weather and element resistant screw
- ▶ The flat head is designed specifically for wood applications

SPECIFICATIONS

- ▶ Gauge - #8 - #10
- ▶ Length – 1-1/4" to 3"
- ▶ Head Type – Bugle
- ▶ Recess Type – #2 Square
- ▶ Thread Type – Single Lead
- ▶ Finish – 304 Stainless
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ES report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

Stainless Steel
Product #331
Bugle Head Coarse, 304-305 Stainless, T-17 Point, Sqr Drv (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| ST112 | #8x1-1/2" | 38 mm | 4,000 | 31.00(lbs) |
| SST114 | #8x1-1/4" | 32 mm | 5,000 | 35.00(lbs) |
| ST158 | #8x1-5/8" | 41 mm | 4,000 | 36.00(lbs) |
| ST200 | #8x2" | 51 mm | 3,000 | 36.00(lbs) |
| 10150SSQ | #10x1-1/2" | 38 mm | 4 M | 26.00(lbs) |
| 10200SS | #10x2" | 51 mm | 3.5 M | 36.00(lbs) |
| 10200SSQ | #10x2" | 51 mm | 3.5 M | 36.00(lbs) |
| 10250SS | #10x2-1/2" | 63 mm | 2.5 M | 26.00(lbs) |
| 10250SSQ | #10x2-1/2" | 63 mm | 2.5 M | 26.00(lbs) |
| ST212 | #10x2-1/2" | 63 mm | 2,000 | 25.00(lbs) |
| ST300 | #10x3" | 76 mm | 1,500 | 22.00(lbs) |
| 10300SS | #10x3" | 76 mm | 2 M | 22.00(lbs) |
| 10300SSQ | #10x3" | 76mm | 2 M | 22.00(lbs) |
| ST312 | #10x3-1/2" | 89 mm | 1,000 | 18.00(lbs) |
| ST400 | #10x4" | 102 mm | 1,000 | 24.00(lbs) |
| ST12300 | #12x3" | 76 mm | 500 | 17.00(lbs) |
| ST12312 | #12x3" | 76 mm | 500 | 15.00(lbs) |
| ST12400 | #12x4" | 102 mm | 500 | 18.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected item

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |

STANDARD CORROSION TEST RESULTS

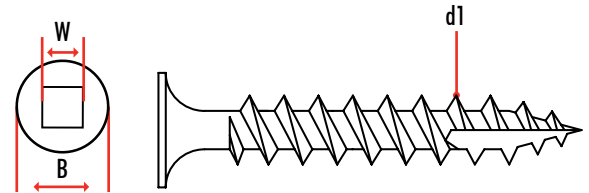
| Finish | Test | Standard/Protocol | Results |
|-------------------------|--------------------|-------------------|--------------------------|
| 304-305 Stainless Steel | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |

GRABBERGARD® and GRABBER Stainless Wood screws are produced in an ISO 9001 approved and certified environment, and meet or exceed American Society for Testing and Materials Standards ASTM Designation B117 (1000hrs) for Corrosion Resistance and D1761 for Mechanical Fasteners for Wood. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered names or trademarks by John Wagner Associates, Inc.

Pull-out Test Data**

| Gauge | 2x2 Douglas | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|-------------|-------------|----------------|------------|--------------------|
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ES report ER-5280 are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Stainless Steel**Product #332****Flat Head Coarse, 305 Stainless, T-17 Point, LOX®** (1 OF 2)

Use LOX® Wood Screws with Stainless for any Exterior Project, Decks, fences, Siding, Lattice, Docks & More.

Finish - 316 Stainless Steel



Flat Head
With Nibs



Type 17
Point



LOX #2

**APPLICATIONS**

- ▶ Any exterior project such as decks, fences, siding, lattice, docks and more.

PRODUCT FEATURES

- ▶ LOX® recess drive does not require a magnetic bit tip holder
- ▶ A superior, weather and element resistant screw
- ▶ The flat head is designed specifically for wood applications

SPECIFICATIONS

- ▶ Gauge - #8 - #10
- ▶ Length — 1-1/4" to 3"
- ▶ Head Type — Flat
- ▶ Recess Type — LOX® #2
- ▶ Thread Type — Single Lead
- ▶ Finish — 305 Stainless
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

Stainless Steel
Product #332
Flat Head Coarse, 305 Stainless, T-17 Point, LOX® (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| W10200S316 | #10x2" | 51 mm | 1750 | 20.00(lbs) |
| W10212S316 | #10x2-1/2" | 63 mm | 1750 | 24.00(lbs) |
| 10250L316 | #10x2-1/2" | 63 mm | 2.5 M | 36.00(lbs) |
| 10300L316 | #10x3" | 76 mm | 2 M | 33.00(lbs) |
| W10300S316 | #10x3" | 76 mm | 1750 | 28.00(lbs) |

*1lb Box, 5lb Box, Deck Pack and Collated screw packaging option available on selected items.

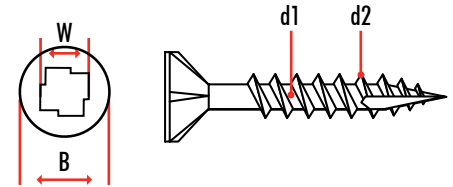
Pull-out Test Data**

| Gauge | 2x2 Douglas | 2x4 Redwood | 1x3 Clear Pine | 1" Plywood | 3/4" Particleboard |
|-------|----------------|----------------|-------------------|---------------|-----------------------|
| #8 | 373 | 377 | 358 | 265 | 227 |
| #10 | 404 | 402 | 396 | 314 | 319 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|---------------|-----------------|--------------------|----------------|-----------------|-----------------|-----|
| #6 | 8.00 | 0.50 | #2 | 2.68 | 2.25 | 3.75 | 8 |
| | 8.50 | 0.80 | | 2.72 | 2.45 | 3.95 | |
| #7 | 8.00 | 0.50 | #2 | 2.93 | 2.50 | 4.05 | 8 |
| | 8.50 | 0.80 | | 2.97 | 2.80 | 4.30 | |
| #8 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |



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Stainless Steel**Product #DM105****Deckmaster® Deck Board Screws** (1 OF 2)**For fastening Deckmaster brackets to deck boards****Finish - 302 Stainless Steel**

Flat Head

Type 17
PointSquare
Drive**APPLICATIONS**

- ▶ Deckmaster® Hidden Fastening System

PRODUCT FEATURES

- ▶ The flat head is designed specifically for wood applications
- ▶ #2 Square recess drive
- ▶ The average ultimate loads of the Deckmaster System with Screws installed at 60° angle. Doug fir to redwood with 1 1/4" screws is 1,012 lbs. Doug fir to redwood with 1 3/4" screws is 1,154 lbs. Pressure treated wood with 1 1/4" screws is 1,180 lbs. Pressure treated wood with 1 3/4" screws is 1,204 lbs.

SPECIFICATIONS

- ▶ Gauge - #10
- ▶ Length — 1" to 1-3/4"
- ▶ Head Type — Flat
- ▶ Recess Type — #2 Square
- ▶ Thread Type — Single Lead
- ▶ Finish — 302 Stainless Steel and GRABBERGARD® GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and 2500 RPM.
- ▶ The Flat head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

Stainless Steel
Product #DM105
Deckmaster® Deck Board Screws (2 OF 2)

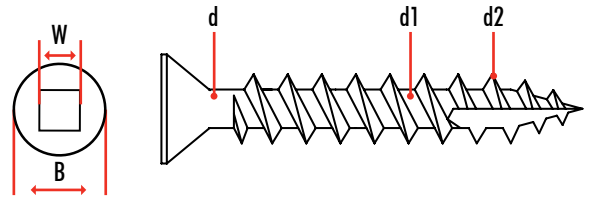
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| DM100DS-100 | #10x1" | 25 mm | 1200 | 20.00(lbs) |
| DM125SS-100 | #10x1-1/4" | 32 mm | 1200 | 20.00(lbs) |

*Mini Pack screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #10 | 8.50 | 0.50 | #2 | 3.78 | 3.20 | 5.00 | 8 |
| | 8.90 | 0.80 | | 3.82 | 3.50 | 5.30 | |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Stainless Steel**Product #DM110****Deckmaster® Joist Screws** (1 OF 2)**For fastening Deckmaster® brackets to joists****Finish - 302 Stainless Steel**Pan
HeadType 17
PointSquare
Drive**APPLICATIONS**

- ▶ Deckmaster® Hidden Fastening System

PRODUCT FEATURES

- ▶ Pan head provides a flat bearing surface
- ▶ #2 Square recess drive

SPECIFICATIONS

- ▶ Gauge - #8
- ▶ Length - 1"
- ▶ Head Type - Pan
- ▶ Recess Type - #2 Square
- ▶ Thread Type - Single Lead
- ▶ Finish - 302 Stainless Steel and GRABBERGARD® GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ER report ER-5280.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance - 4 amps minimum and 2500 RPM.
- ▶ The Pan head is fully seated when the head is flush with the work surface.
- ▶ Overdriving may result in failure of the fastener or strip out of the work surface.

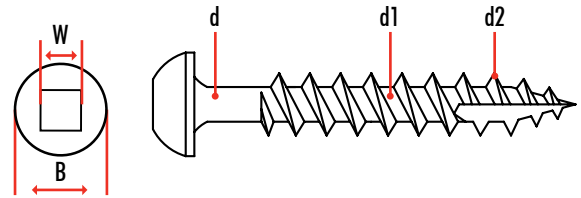
Stainless Steel**Product #DM110****Deckmaster® Joist Screws** (2 OF 2)**PRODUCT SIZES AND ORDERING INFORMATION**

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| DM100SS-100 | #8x1" | 25 mm | 1100 | 14.00(lbs) |

*Mini Pack screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #10 | 8.00 | 0.50 | #2 | 3.18 | 2.80 | 4.30 | 8 |
| | 8.50 | 0.80 | | 3.22 | 3.10 | 4.60 | |



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASME B18.6.1, as referenced in ICC ER report ER-5280, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered trademarks of Grabber Construction Products, Inc.



Cement Board**Product #228****GRABBER® Cement Board Screws Sharp Point** (1 OF 2)**Wafer head with nibs designed for use with cement board and high density exterior sheathing.****Finish - GRABBERGARD**Wafer
Head

Self Piercing

#2 Phillips
Drive**APPLICATIONS**

- ▶ Cement board to Wood
- ▶ High density exterior sheathing
- ▶ Tile-backers to wood
- ▶ Cement Board to Steel, 20 to 25 gauge

PRODUCT FEATURES

- ▶ .40 inch diameter head
- ▶ Alternating High/Low Threads for wood or metal
- ▶ Exterior Grade Corrosion Resistance 1000 hrs per ASTM B117
- ▶ Wafer head with nibs to facilitate seating and minimize strip out
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge - #8
- ▶ Lengths – 1-1/4" – 2-1/4"
- ▶ Head Type – Thin Wafer with Nibs
- ▶ Recess Type - #2 Phillips
- ▶ Thread Type – Single Lead, Alternating High-Low Thread
- ▶ Finish – GRABBERGARD
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271. Head diameter - .40 inch

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ Install with head flush with board, no need to counter sink.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

Cement Board
Product #228
GRABBER® Cement Board Screws Sharp Point (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| BGCB8125HL | #8x1-1/4" | 32 mm | 5 M | 37.00(lbs) |
| BGCB8158HL | #8x1-5/8" | 41 mm | 4 M | 31.00(lbs) |
| BGCB8225HL | #8x2-1/4" | 57 mm | 2 M | 31.00(lbs) |

*1lb Box, 5lb Box and Collated screw packaging option available on selected items

Pull-out and Shear Test Data**

| #8 | 25ga | 22ga | 20ga | 2x2 Fir | 2x4 RW | 1x3 Pine | 3/4" Pine |
|------|--------|--------|--------|---------|--------|----------|-----------|
| AVG. | 209lbs | 318lbs | 434lbs | 187lbs | 403lbs | 507lbs | 476lbs |

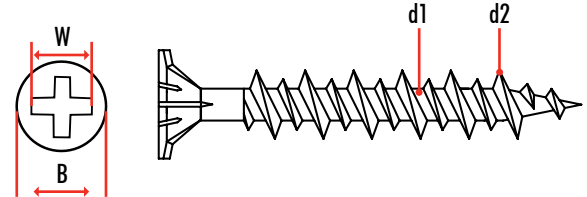
**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 8.18 | 6.20 | | 3.18 | 2.80 | 4.00 | 15 |
| | 8.84 | 6.35 | | 3.22 | 3.00 | 4.20 | |

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|--------------|--------------------|-------------------|--------------------------|
| GRABBERGARD® | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD® | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

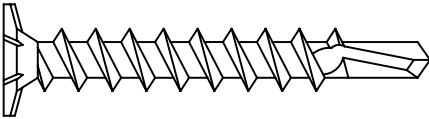


All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, International Residential Building Code 2006, 2009, and 2012.



Cement Board**Product #268****GRABBER® Cement Board Screws Self Drilling** (1 OF 2)

GRABBER Cement Board and High Density Sheathing Screws have been specifically designed for use with Cement board and High density exterior sheathing. These exterior grade corrosion resistant fasteners have a .40" (10.5mm) wafer head with nibs to facilitate seating and minimize strip out. GRABBER Cement Board Screws are used for the attachment of these boards to steel from 20-12 gauge.

Finish - GRABBERGARDWafer
Head

Drill Point

#2 Phillips
Drive**APPLICATIONS**

- ▶ Cement board to Metal

PRODUCT FEATURES

- ▶ Exterior grade corrosion
- ▶ Wafer head with nibs to facilitate seating and minimize strip out
- ▶ Head diameter - .40 inch
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge - #8
- ▶ Length — 1-1/4" to 2-1/4"
- ▶ Head Type — Thin Wafer
- ▶ Recess Type — #2 Phillips
- ▶ Thread Type — Single Lead
- ▶ Finish — GRABBERGARD
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ Install with head flush with board, no need to counter sink.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

Cement Board
Product #268
GRABBER® Cement Board Screws Self Drilling (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| BGCB8125SD | #8x1-1/4" | 32 mm | 5 M | 37.00(lbs) |
| BGCB8158SD | #8x1-5/8" | 41 mm | 4 M | 31.00(lbs) |
| HSS8158JBW | #8x1-5/8" | 41 mm | 4 M | 30.00(lbs) |
| BGCB8225SD | #8x2-1/4" | 57 mm | 2 M | 23.00(lbs) |

*1lb Box and 5lb Box screw packaging option available on selected items.

STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|--------------|--------------------|-------------------|--------------------------|
| GRABBERGARD® | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD® | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

Ultimate SHEAR (BEARING) OF SCREW CONNECTION OF COLD FORMED STEEL (PNS/Ω), pounds-force^{1,3,4}

| Screw Designation | Screw Nominal Diameter (inch) | Steel Tensile Strength | Fu = 310 MPa | | Fu = 448 MPa | | |
|-------------------|-------------------------------|----------------------------|--------------|--------|--------------|--------|-------|
| | | | 20 | 18 | 16 | 14 | 12 |
| | | Steel Gage | | | | | |
| | | Design Thickness(2) (inch) | 0.0346 | 0.0451 | 0.0566 | 0.0713 | 0.102 |
| | | Screw Head Diameter (inch) | | | | | |
| # 8-18 x Flat | 0.164 | 0.371 | 456 | 705 | 1011 | 1065 | 990 |

Nominal Fastener Strength

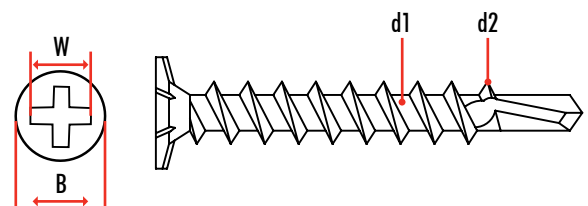
| Screw Designation | Screw Nominal Diameter (inch) | Screw Head Diameter (inch) | Nominal Fastener Strength (tested) | | Allowable Fastener Strength | |
|-------------------|-------------------------------|----------------------------|------------------------------------|-----------------|-----------------------------|---------------------|
| | | | Tension P (lb) | Shear, Pss (lb) | Tension, (Pts/Ω) (lb) | Shear, (Pss/Ω) (lb) |
| #8-18 X Flat | 0.164 | 0.371 | 2215 | 1694 | 738 | 564 |

Pull-out and Shear Test Data**

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #8 | 14 | 450 | 1012 |
| | 16 | 442 | 955 |
| | 18 | 340 | 1045 |
| | 20 | 265 | 680 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.

All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 14001 certified and approved. The fasteners comply with ASTM954, ASTM C1513, as referenced in ICC ESR report ESR-1271, are approved for use in structures governed by the International Building Code 2006, 2009, 2012, 2015 International Residential Building Code 2006, 2009, and 2012, 2015.


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |



Cement Board**Product #290****GRABBER® USG® Structural Panel fastener** (1 OF 2)**Designed for USG Structural Panels.****Finish - GRABBERGARD****Wafer
Head****Drill Point****LOX #2****APPLICATIONS**

- ▶ For attachment of sheathing, siding, OSB or plywood to steel.

PRODUCT FEATURES

- ▶ The USG Structural Panel screw has "reamer nibs" under the head to ease countersinking and leave smooth clean edges.
- ▶ Wings allow the screw to drill into the metal without clogging the threads and racking/lifting the material before it penetrates through the metal.

SPECIFICATIONS

- ▶ Gauge - #8
- ▶ Length — 1-1/4" to 2-3/8"
- ▶ Head Type — Thin Wafer
- ▶ Recess Type — LOX® #2
- ▶ Thread Type — Single Lead
- ▶ Finish — GRABBERGARD
- ▶ Head diameter - .362 inch
- ▶ GRABBER screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICC ESR report ESR-1271.

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance — 4 amps minimum and RPM range of 0 to 4,000.
- ▶ Proper depth setting is paramount in this application.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.
- ▶ The fastener must penetrate beyond the metal a minimum of three thread pitches.

Cement Board
Product #290
GRABBER® USG® Structural Panel fastener (2 OF 2)

PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| CGH8114LG | #8x1-1/4" | 32 mm | 5 M | 32.00(lbs) |
| CGH8158LG | #8x1-5/8" | 41 mm | 4 M | 30.00(lbs) |
| CGH8238LG | #8x2-3/8" | 63 mm | 1 M | 30.00(lbs) |

*Collated screw packaging option available on selected items.

PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d1 Minor Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|--------------|-----|
| #8 | 7.77 | 1.80 | #2 | 3.28 | 2.85 | 4.05 | 18 |
| | 8.18 | 2.46 | | 3.32 | 3.05 | 4.25 | |

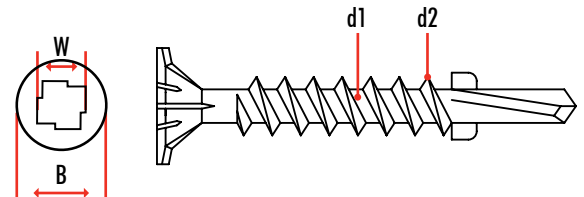
STANDARD CORROSION TEST RESULTS

| Finish | Test | Standard/Protocol | Results |
|-------------|--------------------|-------------------|--------------------------|
| GRABBERGARD | Salt Spray Results | ASTM B117 | 1,000 hours, no red rust |
| GRABBERGARD | Kesternich Results | DIN 50018, 2.0L | 15 cycles, no red rust |

Pull-out and Shear Test Data**

| Screw Gauge | Metal Gauge | Tension (lbs.) | Shear (lbs.) |
|-------------|-------------|----------------|--------------|
| #8 | 14 | 450 | 1012 |
| | 16 | 442 | 955 |
| | 18 | 340 | 1045 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.


DRILLING CAPACITY

| Screw Gauge | Drill Point | Max Panel Thickness | Steel Thickness Gauge Range |
|-------------|-------------|---------------------|-----------------------------|
| 8 | 3 | 0.100-0.140 | 20-12 |

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High Density Board to Steel**GRABBER® High Density Board Sharp Point**

Flat Head, reverse thread, designed for high density interior boards.

Finish - Phosphate



Flat
Head



Self Piercing



#2 Phillips
Drive

APPLICATIONS

- ▶ High density board to Steel , 20 to 25 gauge

PRODUCT FEATURES

- ▶ Reversed thread design to pull board tight
- ▶ Flat head to facilitate seating and minimize strip out
- ▶ #2 Phillips recess drive

SPECIFICATIONS

- ▶ Gauge - #7
- ▶ Lengths – 25m – 55mm
- ▶ Head Type – Flat Head
- ▶ Recess Type - #2 Phillips
- ▶ Thread Type – Single lead with reverse thread near head
- ▶ Finish – Phosphate
- ▶ GRABBER® screws are manufactured in an ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCFS ES ER #5280 and CE14566

INSTALLATION GUIDELINES

- ▶ Use a standard screwgun with a depth-sensitive nose piece. Suggested screwgun specification for optimal performance – 4 amps minimum and 2500 RPM.
- ▶ Install with head flush with board, no need to counter sink.
- ▶ Overdriving may result in failure of the fastener or stripout of the work surface.

Metal Track to Concrete Attachment**Product #333****Oval Head STREAKER®** (1 OF 2)**Oval head fasteners for attaching metal track to concrete.****Finish - Clear Zinc**

Oval Head

24° Streaker®
Point#2 Phillips
Drive**APPLICATIONS**

- ▶ Steel track to predrilled concrete with plastic insert

PRODUCT FEATURES

- ▶ C1022 Steel
- ▶ Clear Zinc plating
- ▶ 12 Tpi
- ▶ Super sharp 24° point

SPECIFICATIONS

- ▶ Gauge – #10
- ▶ Length - 35mm
- ▶ Head Type - Oval
- ▶ Recess Type - #2 Phillips
- ▶ Thread Type - Double Lead
- ▶ Finish - Clear Zinc
- ▶ GRABBER® screws are manufactured in a ISO 9002 and ISO 14001 certified and approved factory, and are approved by ICCFS ES ER #5280.

INSTALLATION GUIDELINES

- ▶ Use standard screw gun or drill, 2500-4000 rpm

Metal Track to Concrete Attachment
Product #333
Oval Head STREAKER® (2 OF 2)

Oval head fasteners for attaching metal track to concrete.
Finish - Clear Zinc
PRODUCT SIZES AND ORDERING INFORMATION

| Catalog No. | Gauge/Length | Length Metric | Quantity Per Carton | Weight Per Carton |
|-------------|--------------|---------------|---------------------|-------------------|
| SLOP35-Z | 10 X 35mm | 10m | | |

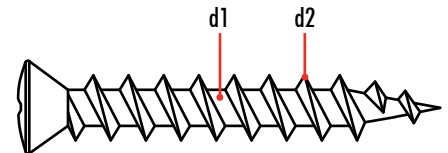
PRODUCT DIMENSIONS (MILLIMETERS)

| Gauge | B Head Dia | Recess Depth | W Gauging Width | d Shank Dia | d2 Major Dia | TPI |
|-------|------------|--------------|-----------------|-------------|--------------|-----|
| 10 | 8.95-9.30 | 2.70-3.20 | #2 | 3.05-3.35 | 4.7-5.00 | 12 |

Pull-out and Shear Test Data**

| Screw Gauge | Nominal Ultimate Shear | Ultimate Tension |
|-------------|------------------------|-------------------|
| #10 | 1727 | 2455 |
| | Allowable Shear | Allowable Tension |
| | 576 | 818 |

**GRABBER fasteners are not categorized as structural bolts. The figures listed above are ultimate average values achieved under independent laboratory conditions, and apply to GRABBER Line fasteners only. An appropriate safety factor must be determined by a qualified professional for design purposes.



All GRABBER® screw products are manufactured in facilities that are ISO 9002 and ISO 1401 certified and approved. The fasteners comply with SAE J78 and ASTM C1002, as referenced in ICCFS report ER-5280, and are approved for use by the Uniform Building Code. ©2012 GRABBER Construction Products, Inc. GRABBER®, STREAKER®, DRIVALL®, LOX®, GRABBERGARD® and SCAVENGER® are registered

