

## IMPORTANT INFORMATION

### IMPORTANT INFORMATION & GENERAL NOTES

These notes are provided to ensure proper installation of Simpson Strong-Tie Company Inc. products and must be followed fully.

- a. Simpson Strong-Tie Company Inc. reserves the right to change specifications, designs, and models without notice or liability for such changes.

- b. Unless otherwise noted, dimensions are in inches, loads are in pounds, and shear loads are applied perpendicular to edge.

This catalog includes all information available as of the effective date of publication. Please consult our website [www.strongtie.com](http://www.strongtie.com) for current information.

### TERMS & CONDITIONS OF SALE

#### PRODUCT USE

Products in this catalog are designed and manufactured for the specific purposes shown, and should not be used for any other purposes unless approved by a qualified Designer. Modifications to products or changes in installation procedures should only be made by a qualified Designer. The performance of such modified products or altered installation procedures is the sole responsibility of the Designer.

#### INDEMNITY

Customers or Designers modifying products or installation procedures shall, regardless of specific instructions to the user, indemnify, defend, and hold harmless Simpson Strong-Tie Company Inc. for any and all claimed loss or damage occasioned in whole or in part by non-catalog or modified products.

### INSTRUCTIONS FOR THE DESIGNER

- a. There are many choices of fasteners, tools and other products. It is often difficult to determine which type of product is best suited for your application. In some cases, there may be more than one type of product that will work well. The information in this catalog is intended to guide the Designer toward the product best suited for the specific application, use and environment. The choice of which product to use should be made by a qualified Designer.
- b. Select fasteners of a type, size, length, thread, head, coating, material, tip and other characteristics suitable for your application, use and environment. Incorrect fastener selection may cause the connection to fail.
- c. Some hardened fasteners may have premature failure if exposed to moisture. These fasteners are recommended to be used in dry interior applications.

- d. Select a fastener only after reading the corrosion information in this catalog.
- e. If using a Quik Drive® product with any other Simpson Strong-Tie® product, consult the Simpson catalog or [www.strongtie.com](http://www.strongtie.com) for detailed information concerning such other product.
- f. Some fasteners have load ratings, and others do not. Fasteners that are not load rated should not be used in any structural application.

The term “Designer” used throughout this catalog is intended to mean a licensed/certified building design professional, a licensed professional engineer, or a licensed architect.

### INSTRUCTIONS FOR THE INSTALLER

- a. Use Quik Drive tools only with authentic Quik Drive fasteners. Other fasteners may cause the tool to malfunction and become damaged.
- b. If a Quik Drive product is compatible with a specified tool, do not use the product with any other tool.
- c. Choose the proper tool to suit your needs.
- d. Use products only in accordance with all instructions.

- e. All specified fasteners must be installed according to the instructions in this catalog.
- f. Use proper safety equipment and follow all safety instructions.
- g. Always wear protective eyewear.

**IMPORTANT INFORMATION****ADDITIONAL SAFETY WARNINGS****Safe Work Area**

- a. Keep work area clean and well lit.
- b. Do not operate Simpson Strong-Tie® Quik Drive® tools in dangerous environments. Do not expose tools to rain, or use them in damp or wet locations. Do not use Quik Drive tools in the presence of flammable liquids, dust or gases, as they can create sparks.
- c. Keep bystanders, children and visitors away while operating a Quik Drive tool. Distractions can cause accidents and serious bodily injury.

**Reduce Risk of Electrical-Related Accidents**

- a. Guard against electrical shock. Prevent body contact with grounded surfaces.
- b. Never modify the Quik Drive tool power plug in any way. Always use a plug with a matching outlet. Use of proper, unmodified plugs and outlets reduces the risk of electric shock.
- c. Do not abuse the power cord. Never carry a Quik Drive tool by its cord or yank it to disconnect from an outlet or other receptacle. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cord immediately. Damaged cords increase the risk of electrical shock.
- d. When operating a Quik Drive tool outside, use extension cords suitable for outdoor use.

**Personal Safety**

- a. Stay alert. Do not use a Quik Drive tool while tired or under the influence of drugs, alcohol, or medication. Use common sense when operating the tool. Inattention while operating Quik Drive tools may result in serious bodily injury.

- b. Dress properly when using a Quik Drive tool. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, long hair, or jewelry can be caught in moving parts and result in serious bodily injury.
- c. Be sure the power switch on a Quik Drive tool is in the off position before plugging in the tool. Do not carry tools with your finger on the switch.
- d. Keep proper footing and balance at all times.
- e. Always use safety equipment such as wearing protective glasses, dust masks, non-skid safety shoes, hard hats, and/or earplugs.

**Quik Drive Tool Use and Care**

- a. Do not force the Quik Drive tool. Use the correct tool for the application.
- b. When not in use, Quik Drive tools should be stored in a dry place and out of the reach of children and other untrained persons.
- c. Disconnect the plug from power source before making adjustments, changing accessories, or storing tool.
- d. Maintain Quik Drive tools with care. Follow instructions for lubricating and changing accessories.
- e. Regularly check for misalignment or binding of moving parts, and other conditions that may affect operation.
- f. Use only accessories recommended by Simpson Strong-Tie Company Inc.
- g. Any repairs to electric tools should be performed by qualified personnel. Use only authorized parts.

**WARRANTIES****LIMITED LIFETIME WARRANTY**

This Limited Lifetime Warranty applies to all Simpson Strong-Tie Quik Drive products (except the QDA158 product, screwdriver motors and batteries) and must be read in conjunction with the General Notes, Terms and Conditions of Sale, and Corrosion Resistance information contained in the current Quik Drive catalog and at [www.strongtie.com/info](http://www.strongtie.com/info), along with any information provided with a Simpson Strong-Tie product. Screwdriver motors and batteries that may be supplied with the products are manufactured by others and are warranted by their respective manufacturers. Simpson Strong-Tie Company Inc. ("Simpson") warrants the products to the original purchaser to be free from substantial defects in material, manufacturing, and design for the lifetime of the product, if properly stored, maintained and used. This Warranty does not cover normal wear and tear or any product that was: (1) purchased other than from an authorized Simpson Strong-Tie dealer, retailer or distributor; (2) modified or altered; (3) used with any fasteners other than authentic Quik Drive fasteners; (4) improperly serviced; or (5) subject to negligence, excessive uses, or any use not in accordance with the printed materials provided with the product as determined by Simpson Strong-Tie. Purchaser's sole remedies are replacement or repair upon return to Simpson Strong-Tie with proof of purchase (shipping prepaid by purchaser). To obtain warranty service go to [www.strongtie.com](http://www.strongtie.com) or contact Simpson Strong-Tie promptly at (800) 999-5099. The repaired or replaced product is warranted under the terms of this Warranty.

**LIMITED 90 DAY WARRANTY**

This Limited 90 Day Warranty applies to the QDA158 product and must be read in conjunction with the General Notes, Terms and Conditions of Sale, and Corrosion Resistance information contained in the current Quik Drive catalog and at [www.strongtie.com/info](http://www.strongtie.com/info), along with any information provided with a Simpson Strong-Tie product. Screwdriver motors and batteries that may

be supplied with the QDA158 product are manufactured by others and are warranted by their respective manufacturers. Simpson Strong-Tie Company Inc. ("Simpson") warrants the QDA158 product to the original purchaser to be free from substantial defects in material, manufacturing, and design for 90 days from date of purchase, if properly stored, maintained and used. This Warranty does not cover normal wear and tear or any product that was: (1) purchased other than from an authorized Simpson dealer, retailer or distributor; (2) modified or altered; (3) used with any fasteners other than authentic Quik Drive fasteners; (4) improperly serviced; or (5) subject to negligence, excessive uses, or any use not in accordance with the printed materials provided with the product as determined by Simpson Strong-Tie. Purchaser's sole remedies are replacement or repair upon return to Simpson Strong-Tie with proof of purchase (shipping prepaid by purchaser). To obtain warranty service go to [www.strongtie.com](http://www.strongtie.com) or contact Simpson Strong-Tie promptly at (800) 999-5099. The repaired or replaced product is warranted under the terms of this Warranty.

**WHERE LAWFUL, SIMPSON STRONG-TIE DISCLAIMS ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL SIMPSON BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES OR DIRECT OR INDIRECT LOSS OF ANY KIND, INCLUDING BUT NOT LIMITED TO PROPERTY DAMAGE AND PERSONAL INJURY. ENTIRE LIABILITY OF SIMPSON STRONG-TIE IS LIMITED TO THE PURCHASE PRICE OF THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.**

**IMPORTANT INFORMATION****FASTENER CORROSION INFORMATION****Understanding the Issues**

Metal fasteners will corrode and may lose load-carrying capacity when installed in corrosive environments or exposed to corrosive materials. There are many environments and materials which may cause corrosion including ocean salt air, fire-retardants, fumes, fertilizers, preservative-treated wood, dissimilar metals, and other corrosive elements.

The many variables present in a single building environment make it impossible to accurately predict if, or when, significant corrosion will begin or reach a critical level. This relative uncertainty makes it crucial that specifiers and users be knowledgeable of the potential risks and select a product coating or metal suitable for the intended use. It is also important that regular maintenance and periodic inspections are performed, especially for outdoor applications.

It is common to see some corrosion especially in outdoor applications. Even stainless steel can corrode. The presence of some corrosion does not mean that load capacity has necessarily been affected or that a failure will occur. If significant corrosion is apparent or suspected, then the wood, fasteners and connectors should be inspected by a qualified professional engineer or qualified general contractor and may need to be replaced.

In the last several years, pressure-treated wood formulations have changed significantly. Many of the new formulations are more corrosive to steel connectors and fasteners than the traditionally used formulation of CCA-C. Simpson Strong-Tie testing has shown that ACQ-C, ACQ-D (Carbonate), CBA-A and CA-B treated woods are approximately 2 times more corrosive than CCA-C, while SBX-DOT (Sodium Borate) treated woods were shown to be less corrosive than CCA-C. (See technical bulletin T-PTWOOD for details).

Due to the many different pressure treatment formulations, fluctuating retention levels, moisture content, and because the formulations may vary regionally, or change without warning, understanding which connectors and fasteners to use with these materials has become a complex task. We have attempted to provide basic knowledge on the subject here, but it is important to fully educate yourself by reviewing our technical bulletins on the topic, and also by viewing information and literature provided by others. Additionally, because the issue is evolving, it is important to get the very latest information on the topic by visiting our website at [www.strongtie.com/info](http://www.strongtie.com/info).

305/316 stainless steel is the most effective solution to corrosion risk. However, it is also more expensive and sometimes more difficult to obtain. To best serve our customers, Simpson Strong-Tie is evaluating the options to identify the safest and most cost-effective solutions. Based on our testing and experience there are some specific applications that are appropriate for N2000® and Quik Guard® coated fasteners (see page 9).

Because increased corrosion from some newer pressure-treated wood is a new issue with little historical data, we have to base our recommendations on the testing and experience we have to date. It is possible that as we learn more, our recommendations may change, but these recommendations are based on the best information we have at this time.

**General Simpson Recommendations**

- Outdoor environments are generally more corrosive to steel. If you choose to use N2000 and Quik Guard coated fasteners on an outdoor project (i.e. deck), you should periodically inspect your fasteners or have a professional inspection performed. Regular maintenance including water-proofing of the wood used in your outdoor project is also a good practice.

- For wood with actual retention levels higher than 0.10 pcf (above ground) for CA-B and 0.20 pcf for CBA-A, or 0.25 pcf (above ground) for ACQ-C and ACQ-D, 305/316 stainless steel fasteners are recommended. Verify actual retention level with wood treater.
- Testing indicates wood installed dry reduces potential corrosion. If dry wood is used, see our website for additional information.

Due to the many variables involved, Simpson Strong-Tie cannot provide estimates on service life of connectors, anchors or fasteners. We suggest that all users and specifiers also obtain recommendations for N2000 and Quik Guard coated fasteners, or other coatings from the treated wood supplier for the type of wood used. However, as long as Simpson Strong-Tie recommendations are followed, Simpson Strong-Tie stands behind its product performance and our standard warranty (page 7) applies.

**Guidelines for Selecting the Proper Fastener Coating****1. Evaluate the Application.**

Consider the type of structure and how it will be used. These recommendations may not apply to non-structural applications such as fences.

**2. Evaluate the Environment.**

Testing and experience indicate that indoor dry environments are less corrosive than outdoor environments. Determining the type of environment where a fastener will be used is an important factor in selecting the most appropriate material and coating for fastener use. To help in your decision making, consider the following general exposure information:

**Interior Dry Use:** Includes wall and ceiling cavities, and raised floor applications of enclosed buildings that have been designed to ensure that condensation and other sources of moisture do not develop.

**Exterior (Deck Boards):** For outdoor deck board installation in conditions other than Higher Exposure Use.

**Higher Exposure Use:** Includes exposure to ocean salt air, fire retardants, large bodies of water (e.g. dock boards), fumes, fertilizers, soil, some preservative-treated woods, industrial zones, acid rain, and other corrosive elements.

**3. Evaluate and select a suitable pressure-treated wood for the intended application and environment.**

The treated wood supplier should provide all the information needed regarding the wood being used. This information should include: the specific type of wood treatment used, if ammonia was used in the treatment, and the chemical retention level. If the needed information is not provided then Simpson would recommend the use of 305/316 stainless steel fasteners. You should also ask the treated wood supplier for a coating or material recommendation.

**4. Use the chart on the next page, which was created based on Simpson Strong-Tie testing and experience to select the fastener coating or material.**

If a pressure-treated wood product is not identified on the chart, Simpson Strong-Tie has not evaluated test results regarding such product and therefore cannot make any recommendation other than the use of 305/316 stainless steel with that product. Manufacturers may independently provide test results or other product use information; Simpson Strong-Tie expresses no opinion regarding any such information.

**5. Compare the treated wood supplier's recommendation with the Simpson Strong-Tie recommendation.**

If these recommendations are different, Simpson Strong-Tie recommends that the most conservative recommendation be followed.

**IMPORTANT INFORMATION**

**Quik Drive Fasteners: Minimum Coating or Material Recommendation**

Environment	Untreated	SBX/DOT & Zinc Borate	MCQ	ACQ-C, ACQ-D, CA-B, CBA-A		
				w/o Ammonia	w/ Ammonia	Higher Chemical Content
Interior Dry	Low	Low	Low	Med	Med	High
Exterior (Deck Boards)	Med	N/A	Med	Med	High	High
Higher Exposure (Dock Boards)	High	N/A	High	High	High	High

**Low** – Heavy zinc electroplate, yellow zinc dichromate, gray phosphate, C-3 mechanically galvanized, Climaseal®, TufCote®, clear zinc, 410 stainless steel

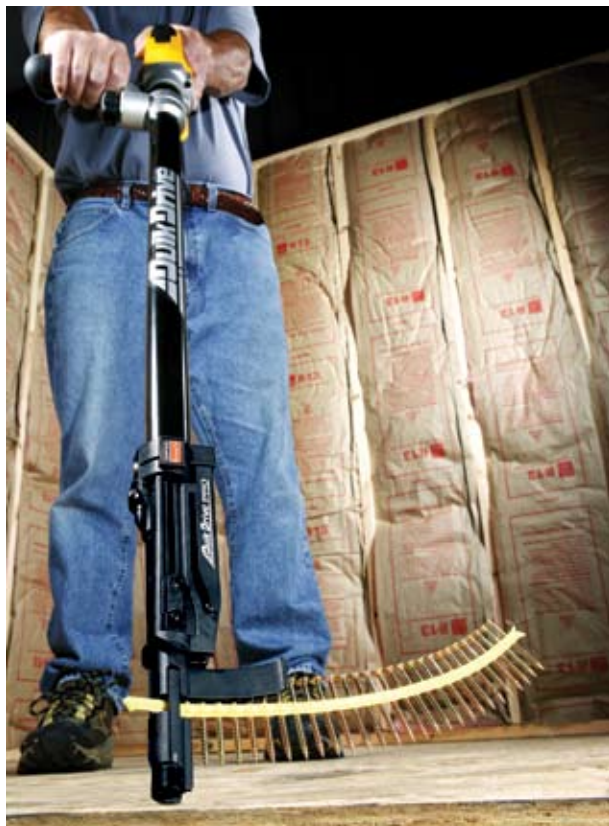
**Med** – N2000®, Quik Guard®

**High** – 305/316 stainless steel

For more information on screw coatings see page 60.

1. Use 305/316 stainless steel with any treatment chemical not listed above or in uncertain environmental exposure conditions.
2. For wood with actual retention levels higher than 0.10 pcf (above ground) for CA-B and 0.20 pcf for CBA-A, or 0.25 pcf (above ground) for ACQ-D, ACQ-C and MCQ 305/316 stainless steel fasteners are recommended. Verify actual retention level with wood treater.
3. Borate treated woods are not appropriate for outdoor use.
4. Test results indicate that N2000 and Quik Guard will perform adequately, subject to regular maintenance and periodic inspection. However, the test protocol followed was a modified version of the nationally recognized test method AWWPA E12-94. This test method is an accelerated test, so data over an extended period of time is not available. Also noteworthy is that tests run in a laboratory may not correlate to service conditions. If uncertain, use 305/316 stainless steel.
5. Some treated wood may have excess surface chemicals making it potentially more corrosive. If you suspect this or are uncertain, use 305/316 stainless steel.
6. Ammonia is typically used as a chemical carrier for difficult to treat wood species, such as, but not exclusive to, Douglas Fir and Hem Fir, which are usually found in the Western United States. Amine carriers are used in some of the Eastern species, such as Southern Yellow Pine. If uncertain, verify chemical chemical with wood treater.

For the latest Simpson Strong-Tie® Quik Drive coating information and additional technical information on this topic, visit our website at [www.strongtie.com/info](http://www.strongtie.com/info).



# Trade Up!

**Trade in your existing collated screw system for a Simpson Strong-Tie® Quik Drive auto-feed screw driving system.**

All auto-feed screw systems are not created equal, and we want to show you why. If you give us your old competitor's tool\* we'll give you a brand new Quik Drive attachment, extension and adaptor to fit your screwdriver motor. For more information, call (800) 999-5099 to contact your local Simpson Strong-Tie Quik Drive representative.

\*Additional charge may apply in some areas, call for details.