

Sphere 1 Circular

“News and Views That Are Out Of This World”

Summer 2022
Vol. 22 No. 2

BOARD OF DIRECTORS

CHAIRMAN

RON FOLTZ
CORNERSTONE TOOL & FASTENER
TALLAHASSEE, FL



VICE-CHAIRMAN

MARIA POLIDORO
ACE TOOL
WANTAGH, NY



TREASURER

JOE WIBBENMEYER
NU WAY
ST LOUIS, MO



SECRETARY

SEAN ACKERMAN
THE TOOL NUT
YORKTOWN HEIGHTS, NY



DIRECTORS



RODNEY STEIER
DUO-FAST NORTHEAST
EAST HARTFORD, CT

SCOTT BROWN
HAHN SYSTEMS
INDIANAPOLIS, IN



SUZANNE BRUNNEMER
MANN TOOL AND SUPPLY
WEST COLUMBIA, SC



JEFF TANNENBAUM
TANNER BOLT & NUT
BROOKLYN, NY

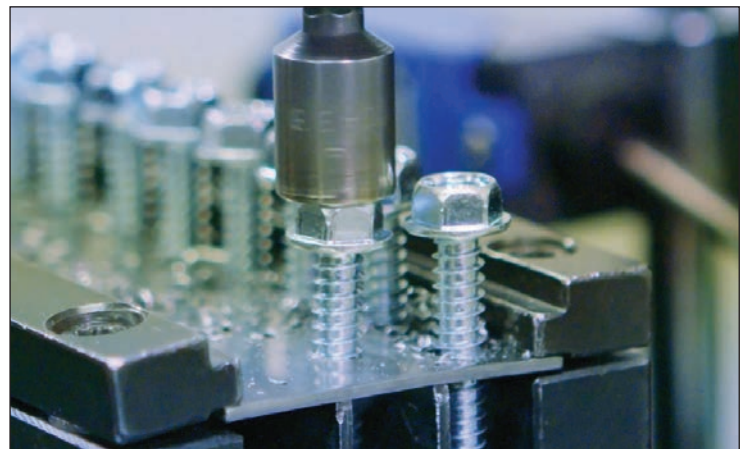


ZERO TO FASTENED IN SECONDS!



It's not just a tag line,
it's a promise!

When Intercorp was established in 1988, our founders came with over 50 years of combined knowledge of what was needed in the import construction screw market. Back then, we started with self-drilling screws and drywall screws. Quality was the focus for the company because they knew there were many options on where to purchase these fasteners; but if you put a quality product on the market you could build a name for yourself. Relationships were established with manufacturers in Japan, where at the time the most reliable, consistent quality for imports were being produced. That product set the bar and expectations for the company that to this day has not wavered.



Drill testing machines are used to test product lots prior to distribution. Self-drilling screws must pass the guidelines established by Fastener Inspection Products F.I.P. 1000.7. This guarantees that the screws on the jobsite have been lot tested for drill speed and consistency.

Continued on page 3

Self-Drilling Screw Performance Specification Specification F.I.P. - 1000.7



SIZE		DUCTILITY Minimum Degrees	TORSIONAL STRENGTH Min. lb.-in*	HYDROGEN EMBRITTLEMENT		TORQUE Minimum lb.-in.
Inch	Metric			TEST PLATE (RB 60-85) +/- .002 in		
				Style 2	Style 3	
4-24	M2.9 x 1.06	5	14	.079	-	SEE NOTE
6-20	M3.5 x 1.27	5	24	.090	.110	
8-18	M4.2 x 1.41	5	42	.098	.142	
10-16	M4.8 x 1.59	5	61	.110	.173	
12-14	M5.5 x 1.81	5	92	.142	.209	
1/4-14	M6.3 x 2.21	5	150	.173	.209	
Minimum Sample Size		8 pcs.	4 pcs.			13 pcs.

SIZE		TEST PLATE (RB 60-85) Thickness +/- .002 in	DRILL SPEED RPM	AXIAL LOAD			DRILL-DRIVE TIME Max. Sec.
Inch	Metric			FINISH			
				A	B	C	
4-24	M2.9 x 1.06	.062	2500	25	30	45	2.0
6-20	M3.5 x 1.27	.062	2500	30	35	45	2.5
8-18	M4.2 x 1.41	.062	2500	30	35	45	3.0
10-16	M4.8 x 1.59	.062	2500	35	40	50	3.5
12-14	M5.5 x 1.81	.062	1800	45	50	60	4.0
1/4-14	M6.3 x 2.12	.062	1800	45	50	60	5.0



Vendor Spotlight

**DIAMOND
SPONSOR**

Complete Cold-Formed Steel Solutions



go.strongtie.com/cfs
(800) 999-5099

© 2022 Simpson Strong-Tie Company Inc. CFS22



Vendor Spotlight

**PLATINUM
SPONSOR**



NEW Heritage Brick Cast-in-Place Composite Paver

**Long-term durability
with the classic
appeal of brick**

Eliminates trip hazards
and maintenance issues

More durable than brick
or concrete pavers

Based on proven
ADA paver design

ADAAG / PROWAG
compliant

Available in standard and
new Stonescape UV+ colors

www.adatale.com
1-800-372-0519

Board Chairman's Message

Sphere 1 Members and Preferred Suppliers,

After reading Rob's article, it's apparent as an organization that we are on a great trajectory, both in business and in building community.

In business, as we continue to grow, the board is working closely with our staff to ensure that we are creating the infrastructure to support this dynamic enterprise. Your board is comprised of fellow member owners and business people who are keenly aware of the importance of keeping expenditures in line for our continued success. As ongoing growth and circumstances dictate, you will see a shift in some areas, from paying outside service providers, to adding additional team members. These steady changes will enable management to more effectively provide information and greater service to our supplier partners and membership.

In building community, we literally provided for the building of a home for one of America's wounded military veteran heroes, with the overwhelming financial contributions from our suppliers and members. As Rob said, "It's worth sharing again - You all raised more than \$150,000 dollars!" For an organization in the building industry, nothing could be more fitting or appropriate. Your generosity makes me so very proud and deeply grateful to call you all colleagues. Thank you, **Mike Shumard**, for the vision and persistence to bring this project to life, and to **Building Homes for Heroes**, for your dedicated work and one very special evening.

These are exciting times as we continue to lead in a constructive way.

At some times in life, there are moments of deep sadness. After fighting cancer for many years, our longstanding board member **Rod Steier** passed away in August. Over the years, his analytical approach and calm delivery served as a guiding force on the board. I had the opportunity to spend time with Rod as a friend, mentor, and very importantly, one of the few non-golfers on the board. We would visit museums, and do pretty much whatever came to mind. The last time I spoke with Rod, we were reminiscing about our Segway tour in downtown Boston at 5:30 in the evening, on a Friday!



My deepest condolences go out to his wife, Elena, and their family. The industry will miss him, the board will miss him, and like many others his life touched, I will miss him.

My best to you all, and see you at STAFDA,

Ron

It is vital, however, that the right fastener, RPM speed, and tool are selected and used for each application. The drill point of the fastener is identified by a numbering system ranging from #1 to #5. This references the length or protrusion allowance of the drill point that identifies the capability of the fastener to drill a maximum thickness of material for each given number. #1 point being the shortest protrusion for thin gauge applications and #5 having the longest drill point for up to 1/2" steel drilling capabilities. The table below helps the user identify the proper screw and recommended RPM speed for selecting the right fastener in relation to the thickness of material that is being attached.

The type of bit or recess used for drilling and driving the fastener in the installation process must also be considered. The hex drive uses a nut setter and provides a positive engagement between the fastener and tool, and limits the potential of stripping out the heads. A Torx or star drive recess has become popular recently for achieving a positive engagement into the fastener and limiting cam-out during installation. Phillips drive recesses are still commonly used here in the U.S., but options such as square drive or Combo Phillips-Square Drive have been utilized as



STRONG-POINT[®]
Get the Point. Strong-Point.

Self-Drilling Drill Capacity Guideline

POINT	DIAMETER	.050	.100	.150	.200	.250	.300	.350	.400	.500	.600	DRILL SPEED
1	1/4	.018-----.090										2000
2	6	.035-----.090										2500
2	8	.035-----.100										2500
2	10	.035-----.110										2500
3	10	.035-----.176										2500
3	12	.035-----.210										2000
3	1/4	.060-----.220										1750
4	12	.060-----.260										1500
5	12	.060-----.500										1500

It's just as important to use the right tool. A screw gun with clutch must be used to avoid over torquing the fastener, which could lead to head snapping or stripping of threads. Avoid using hammer drill guns or pneumatic tools that produce excessive RPM's, as these options can compromise the integrity of the fastener--leading to failures.

There are several options of head configurations to choose from. The most popular being a hex washer head. Other popular head styles include pan head, flat head, modified truss head, as well as many other styles that are used for specific applications.



well, and generally become a decision based on preference and previous experience of the user.

Self-drilling screws are used for attaching a variety of substrates to steel as well as steel to steel applications. Installed fasteners must penetrate a minimum of three full threads beyond the metal structure to securely fasten the materials. Selecting a fastener that has a sufficient thread length to accommodate the overall thickness of the fastened material and achieve the minimum three thread engagement is critical to a correct installation and attachment.

Many substrates such as pressure treated lumber require a protective coating on the fastener to prevent the chemicals in the lum-

Continued on page 4

ber from attacking the fastener, causing it to corrode over time. Environmental conditions and exposure to elements like coastal salt air, acid rain, or other atmospheric conditions, can lead to rust and corrosion as well. Utilizing a fastener with a fluoropolymer coating will keep the fastener protected from chemicals and corrosive elements. Intercorp has developed several options and offers a variety of coatings on self-drilling screws that specifically address the application or environmental conditions of the jobsite.



It is important to note that most screw failures are a result of the wrong choice of fastener, installation tool, or installation procedure. By following established guidelines, and carefully selecting the right self-drilling screw for its intended application, you can be confident of a successful attachment of material for the life of the project.

Intercorp developed the brand name **Strong-Point** in the mid 1990's to clearly identify the quality associated with its products. In 2014 we received our certified ICC Report ESR-3528 (<https://www.intercorp-usa.com/docshare/submittals/ESR-3528.pdf>) certifying that the **Strong-Point** brand of products meet the quality criteria established by International Code Council. This can be critical documentation required to have fasteners approved on jobsites by engineers, general contractors, specifiers, or many building officials.

Visit our website for more information, and view our extensive line of self-drilling screws and other quality construction fasteners. www.intercorp-usa.com.

Vendor Spotlight
DIAMOND SPONSOR

Makita
XGT
BEYOND LIMITS®
40V | 80V max

THE POWER OF A
75.6cc
GAS SAW*

81ccB1 / 80V max (40V max X2)
XGT® Brushless 14" Power Cutter
*Compared to EK7651H

TWO FREE BATTERIES
BUY 80V max XGT™ 14" POWER CUTTER
GET TWO FREE XGT™ 8.0Ah BATTERIES

8.0Ah BL4080F

S1-0822 MA-11739-22

Vendor Spotlight
BRONZE SPONSOR

NEW!
MID-HANDLE AIR GUNS
BALANCED, FATIGUE-FREE DISPENSING

AB30 Bulk
AS20 Sausage
AC10 Cartridge

The Best Just Keeps Gettin' Better!®

Albion
DISPENSING SOLUTIONS

www.albioneng.com

Vendor Spotlight
GOLD SPONSOR

VEGA™
DRIVING INDUSTRIAL PERFORMANCE

EXPERTS IN FASTENER DRIVING TOOLS

INDUSTRIAL LEVEL QUALITY

BROADEST LINE IN THE INDUSTRY

VEGATOOLS.COM | 909-484-1100



Current Market Conditions

We are very optimistic about business going forward. But to understand the optimism, we have to look back at where we came from. Everyone has heard and experienced the worldwide “supply chain” issues. There was a shortage on product. Product was taking longer to produce. Demand increased. Material costs increased. Manufacturing times were extended. Freight costs were way up and unpredictable. Ocean freight times increased. It was slower getting product from the harbor. Railyards were over capacity. There were not enough chassis and truck drivers for over the road freight. We need to remember that this is where we are coming from. We are coming out of 2 years of instability and volatility that became the norm.

Today we are seeing encouraging signs that we feel will stabilize our market in the near future.

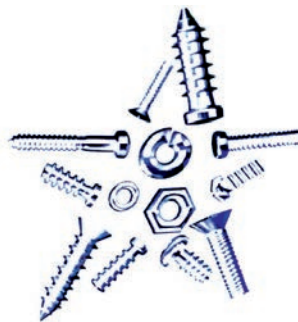
In the stainless steel world, everything revolves around nickel. In 2020 nickel traded around \$4.30/lb. We saw nickel reach almost \$20.00/lb in 2021 and was consistently running from \$9.90 /lb - \$12.50/lb. Over the last couple of months, we have seen a decrease in prices of about 25% attributed to the worldwide drop in demand, much of that due to China’s Covid response and Shanghai’s lockdowns because of it. China is the world’s largest user of

nickel, (roughly 53%) but the rest of the world has also seen an overall slight drop in demand.

Freight costs appear to have stabilized. 2020 containers were plentiful at about \$2,000 per. Over the next couple of years we all saw prices anywhere from \$10,000 to over \$20,000 per! We have seen some stability, lately, and a recent roughly 10% drop in container costs. It is now more expected that freight will actually make it on a ship. Sail times are a bit longer than in the past, but getting product off-loaded and moving once here, is getting better.

We have seen about an 8% increase in the exchange rate between the US and Taiwanese dollars. The stronger the US dollar is, the more power we have to purchase. The US economy is strong, but inflation is a real concern.

Our expectation is deliveries from factories will get better, but logistics will remain constrained from the backlog. Prices should stabilize at the current level as long as there is not a drastic pull or push on the demand. Prices will not fall back to the 2020 and prior times, but it should be consistent going forward in the near future.



Kevin Chavis
Star Stainless Screw Company



U.S. ANCHOR A BRIGHTON-BEST INTERNATIONAL COMPANY

STRONG CUSTOMER SATISFACTION THROUGH PRODUCT TESTING & APPROVALS, PRODUCT LINE EXTENSION & INVENTORY COMMITMENT

Since 1985, the **U.S. Anchor** product line, from **Brighton-Best International**, has consistently supplied distributors and end users with high-quality Lite, Medium and Heavy-Duty anchoring systems.

As the anchoring business has matured over time, new products have been added to the U.S. Anchor line to meet the demands required on jobsites and industrial facilities. This growth is due to a commitment to investing in product testing to meet and exceed strict industry standards. These new products deliver better performance and improved ease of installation.

In today's pandemic environment, there has been more pressure for manufacturers to meet the growing demand of the marketplace. These demands are mostly centered upon supply chain issues. Distributors and users are seeking high fill rates that aid in their planning process. BBI has consistently delivered high fill rates of U.S. Anchor products from 21 regional warehouses.

PRODUCT TESTING & APPROVALS

Product approvals have become a requirement in today's construction environment. These approvals emanate

from industry code committees via consensus agreements. The primary code committees A.S.T.M. and I.C.I. establish new testing criteria for third party testing laboratory protocols. Once established, the main evaluation and approval agencies adopt the testing protocols as part of their overall certification process. Examples include ICC-ES and Miami Dade County.

Manufacturers today strive to design and engineer anchoring products to meet or exceed the established criteria conducted by the third party testing laboratories. Once the results of the testing is evaluated for compliance, they are published to the industry. Distributors can sell and market these approved anchoring products with confidence resting on quality assurance from independent evaluation oversight. To better serve U.S. Anchor customers, BBI has made significant financial investments in these important areas.

PRODUCT LINE PROFILES Heavy Duty Anchors

The two main areas of anchor industry development and expansion are centered upon the heavier duty wedge and concrete screw product lines.



Preferred



Continued on page 7

These anchoring designs are typically specified when pull-out, shear and edge & spacing criteria is paramount.

The Ultrawedge+, our flagship wedge anchor, has been manufactured at the same factory since 1996, while the Tapking HD is highly engineered, with strict inspection, bi-annually through independent auditors.

As a result of code committee oversight and analysis, changes to testing criteria has mandated improved anchor design and performance. The main change in the past 15 years has been 'cracked concrete'. This has had a profound effect on anchor design and ability to perform under critical field conditions. Seismic events from the past contributed to an important role in these new testing mandates. The addition of cracked concrete approvals has contributed to better performing anchoring products, fueling the growth of the U.S. Anchor product lines, particularly in the heavy duty range of products.



Lite & Medium Duty Anchors

The comprehensive U.S. Anchor lite & medium anchor selections include the following anchor types for multiple substrates and applications.

- Tapking SD – Standard & Trim Head concrete screws (Miami Dade) Standard Blue Light Duty Concrete Screw for Standard Fastening into Masonry Substrates. Colored Coded Trim Head Series Available for Fastening Impact Windows to Masonry Substrates. Miami Dade County approval NOA-21-0325.09

- Drop-In – Sleeve anchors (ASTM-E488) independently tested Drop In anchors are installed in solid materials such as poured or pre cast concrete. They have shorter drilling depths, which allows for quick and easy installation. They are used primarily in heavy duty applications where the anchor must be flush or countersunk to the surface.



- Legacy Anchors – Single/Double Expansion, Lead and Machine Screw - Both the single and double versions are considered to be a light to medium duty anchor, made out of a rustproof zinc alloy material, and set flush with the base material surface.

Continued on page 8



Vendor Spotlight

DIAMOND SPONSOR

metabo HPT

**36V MULTIVOLT™
21° 3-1/2" DUPLEX NAILER**



[NR3675DD]

2020 Pro Tool Innovation Award Winner
for Duplex Framing Nailers

#1 PRO PREFERRED
Pneumatic Brand

Contact Your Sales Rep



Vendor Spotlight

PLATINUM SPONSOR



BOSS

TASK SPECIFIC GLOVES



PROTECTIVE INDUSTRIAL PRODUCTS, INC.

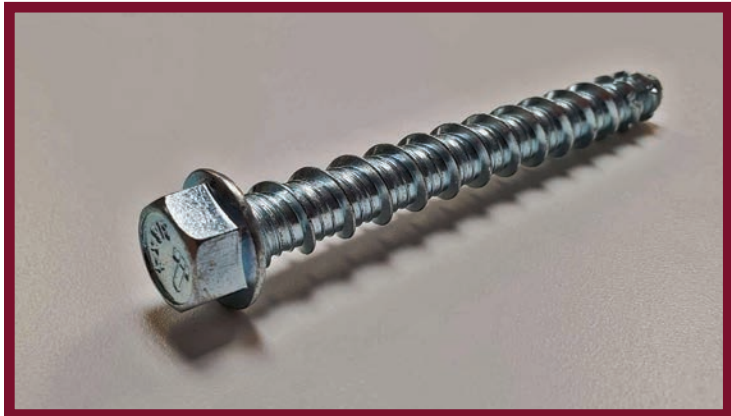
BRINGING THE BEST OF THE WORLD TO YOU™

Email customerservice@pipusa.com to order

www.pipusa.com

The **Single Expansion Anchor** expands against the concrete at only one point. The application is designed to allow the bolt to be removable.

The **Double Expansion Anchor** expands against the concrete at two points. The dual



expansion process distributes evenly over the full length of the anchor body. Excellent for soft masonry and base materials of

questionable strength, the anchor design allows the bolt to be removable and reusable.

- Conical Plastic/Nylon Drive/Mungo/Toggle Bolts
- Drywall – EZ/Wall Driller/Hollow Wall

Generic bulk wedge and concrete screws are also available. All U.S. Anchor packaging includes pertinent data to identify the parts, lot numbers and dimensions, for ease of use and traceability.

INVENTORY COMMITMENT & CUSTOMER SERVICE

Brighton-Best International prides itself on a strong inventory commitment to support its Sphere1 Members. Strict adherence to sourcing and on hand stocking levels has contributed to high fill rates and high customer satisfaction. The significant investment in product testing and approvals has increased and improved our reputation at the engineer-

Continued on page 9

Vendor Spotlight
DIAMOND SPONSOR

NORTON
SAINT-GOBAIN

THE BEST JUST GOT BETTER!
Longer life and faster cutting speeds now available on these improved abrasive wheels.

Contact us today to find out more at
(800) 554-8003 | NACustomerService@saint-gobain.com
www.nortonabrasives.com

Vendor Spotlight
BRONZE SPONSOR

Brickform DAY1 is a colloidal silica-based finishing aid that makes concrete flatwork finishing easier and faster.

Contact your local sales representative for more information
www.brickform.com

Vendor Spotlight
BRONZE SPONSOR

CREDIT CARD PROCESSING

Recent statements analyzed have shown

- ✓ \$172 million in annual volume
- ✓ \$764,000 in projected annual savings
- ✓ 80% NOT PCI Compliant
- ✓ 90% are experiencing downgrades

Is your current processor taking advantage of you?
LET'S FIND OUT...

- 1 Email a copy of your most recent merchant statement to grauch@cardconnectaip.com
- 2 We will contact you to discuss our findings & recommendations.

sphere1.savings4members.com **SAVINGS4 MEMBERS**

ing and end user levels, with the development of the Ultrawedge+ Wedge Anchor and the Taping HD Heavy Duty larger diameter concrete screw contributing to increased recognition nationally.

U.S. Anchor inventory emanates from 21 regional Brighton-Best International warehouses, backed by 150 inside and 20 outside sales professionals, and a web ordering system that allows you to check availability and pricing for any inventory item 24/7 with just a few short keystrokes!

In addition to investing in product testing and approvals, Brighton-Best International has not only built a marketplace where customers want to come to transact, but also an in-house warehouse management system that can track an order from sales order entry to picking, packing & shipping. With the warehouse management system, BBI is able to know real-time inventory positions at all of its warehouse locations.

Quotations, purchase orders, open order inquiries, and component certification reviews can all be accessed quickly and easily on-line at www.brightonbest.com.

For more information on all U.S. Anchor product lines please visit: https://www.brightonbest.com/us_anchor.html.



INTERNATIONAL FASTENERS, INC. presents FASTENER SELECTION BASICS

Screws hold the world together.

These fasteners are often the least expensive component in the overall build. They are considered a commodity item. Also, they can cause a lot of problems if not properly chosen and used correctly.

Let's look at what it takes to identify and select the correct screw.

FACTORS THAT DETERMINE THE SELECTION OF A FASTENER:

- Application
- Point Design
- Body Diameter
- Length
- Head Style
- Drive Type
- Thread Type
- Material
- Finish
- Code Approvals
- Quality Assurance
- Installation

APPLICATION

What are the materials being joined?

Steel to Steel
Wood to Steel
Wood to Wood

Drywall to Wood
Cabinets to Steel
Cabinets to Wood

What is the total thickness of the material being joined?

20 GA steel (.033) to ½" plywood = .033 + ½" = Total Thickness

20 GA steel (.033) to 18 GA steel (.043) = .033 + .043 = Total Thickness

When the application has been determined, it is then possible to choose a fastener with the appropriate point design, body diameter, length, head style, drive, thread type and plating requirements.

POINT DESIGN

Self Piercing – Sharp point for wood or light gauge steel 20 gauge or thinner.

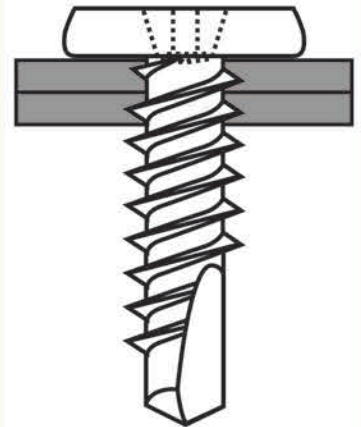
Needle Point – Very sharp point (28-30 degree). Recommended for total thickness equal to 20 ga steel. Example: 25 ga to 25 ga does not require pre-drilling a pilot hole.

Blunt Point – For pre-drilled holes.

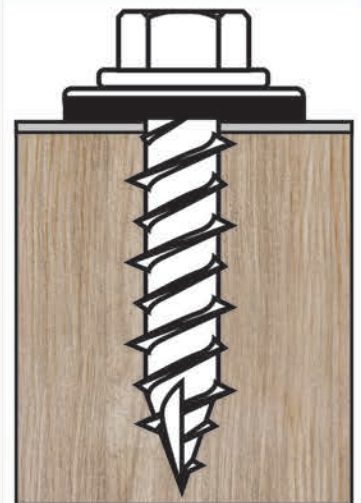
Self-Drilling – With a drill shaped point enabling the fastener to drill its own hole. Recommended for connections 20 gauge or thicker.

Continued on page 11

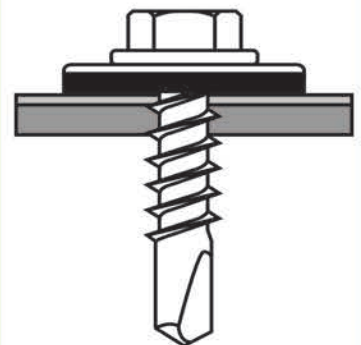
PANEL CLIP



POST FRAME



ALUMINUM INDUSTRY



INTERNATIONAL FASTENERS, INC.

"The Distributor's Choice"

PLATING COMPARISON CHART

PRODUCT/ FINISH	FINISH CONTENT	APPLICATION	CORROSION RESISTANCE	ADVANTAGES	DISADVANTAGES
ZINC SHINY SILVER	ZINC PHOSPHATE	MINIMUM CORROSION RESISTANCE FOR ALL CARBON STEEL FASTENERS	24 HOUR SALT SPRAY	PRICE	SHORT LIFE WITH NO RESISTANCE TO ACID
PHOSPHATE DULL BLACK OR GRAY	BLACK OR GRAY PHOSPHATE	INTERIOR DRYWALL INSTALLATION FASTENERS	48 HOUR SALT SPRAY	PRICE	SHORT LIFE WITH NO RESISTANCE TO ACID
YELLOW ZINC SHINY YELLOW	ZINC PHOSPHATE WITH YELLOW DICHROMATE	PRIMARILY USED IN FURNITURE AND CABINETS	48 HOUR SALT SPRAY	PRICE APPEARANCE EASIER TO DRIVE	SHORT LIFE WITH NO RESISTANCE TO ACID
DACROMET SILVER	MULTI DICHROMATE COATING	OUTDOOR WOOD DECKING AND FENCING	500 HOUR SALT SPRAY	LONGER LIFE WITH SOME ACID RESISTANCE BASE COAT ADDS PROTECTION IF COATING IS COMPROMISED	ECONOMICAL COST WITH HIGHER LIFE THAN MOST COATINGS
DAGGER- GUARD MULTI COLOR	THREE LAYER PROCESS	EXTERIOR APPLICATIONS METAL BUILDING WOOD DECKING/ FENCING CEMENT BOARD CONCRETE/MASONRY	1000 HOUR SALT SPRAY	EXCELLENT CORROSION RESISTANCE AGAINST GAS, SALT WATER, SCRATCHES, WEATHERING, AND OTHER CORROSIVE FACTORS, INCLUDING CONTACT WITH OTHER METALS	HIGHER COST THAN OTHER COATINGS YET MORE ECONOMICAL THAN STAINLESS
DAGGER ULTRA-GUARD MULTI COLOR	ZINC/CHROMATE SUBSTRATE WITH PROPRIETARY ORGANIC TOPCOAT	FOR USE WITH ANY ACQ TREATED LUMBER	1000 HOUR SALT SPRAY ACQ APPROVED	SUPERIOR CORROSION RESISTANCE SPECIFICALLY IN ACQ TREATED LUMBER	HIGHER COST THAN OTHER COATINGS YET MORE ECONOMICAL THAN STAINLESS
DAGGER-PRO ULTRA-GUARD MULTI COLOR	ZINC/CHROMATE SUBSTRATE WITH PROPRIETARY ORGANIC TOPCOAT	FOR USE WITH ANY ACQ TREATED LUMBER	2000 HOUR SALT SPRAY ACQ APPROVED	BEST COATING AVAILABLE SPECIFICALLY IN ACQ TREATED LUMBER	HIGHER COST THAN OTHER COATINGS YET MORE ECONOMICAL THAN STAINLESS
DAGGER- CERAMIC MULTI COLOR	PRIMERSEAL BASE COAT WITH COLOR STABLE TOP COAT	ALUMINUM INDUSTRY	2000 HOUR SALT SPRAY	BEST COATING AVAILABLE FOR EXTREME ENVIRONMENTS IN THE ALUMINUM INDUSTRY	HIGHER COST THAN OTHER COATINGS AND LIMITED USE

ALL SALT SPRAY CERTIFICATION IN ACCORDANCE WITH ASTM B117

Type 17 – Normally any type of sharp point fastener with a cut out slot at the point to aid in the tapping function. Recommended for fasteners used in hard woods to reduce driving torque and avoid screw fracture.

BODY DIAMETER

Normally the body diameter required (or specified in your design print) is pre-determined. If a diameter is not specified, refer to your supplier or manufacturer for recommendations.

LENGTH

Steel to Steel or composite to steel connections will require that you have three threads exposed through the back of the stud or substrate. Any material to wood will be determined by the embedment requirement. Normally ¾" to 1" will be required.

An example would be 1" material to 2 x 4, requiring, ¾"

Continued on page 12

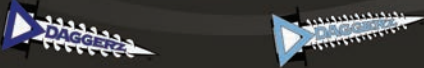


Vendor Spotlight

PLATINUM SPONSOR

INTERNATIONAL FASTENERS, INC.

"The Distributor's Choice"



Make Us Your Choice Today!



Self Drill



Drywall



Deck



Wood Working



Concrete



Post Frame



Panel Clip



Needle Point



Specialty

www.daggerz.com



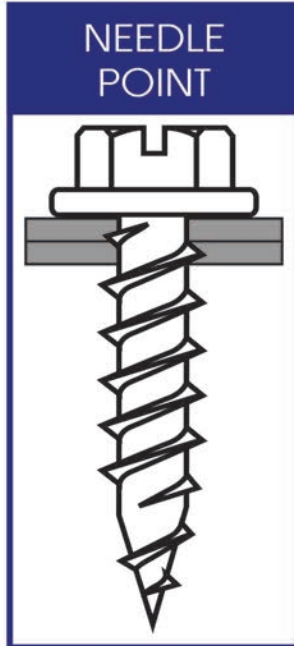
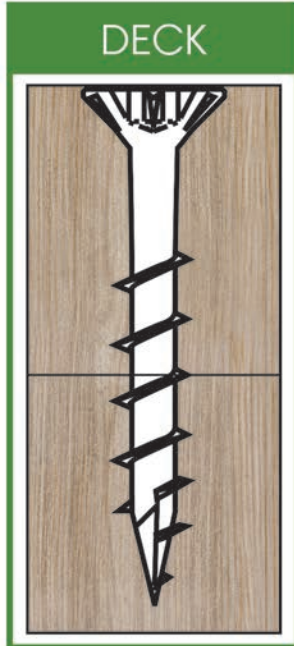
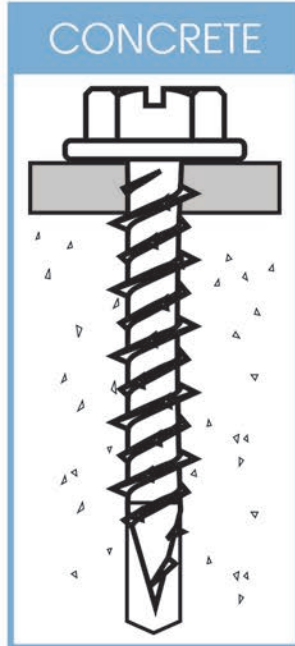
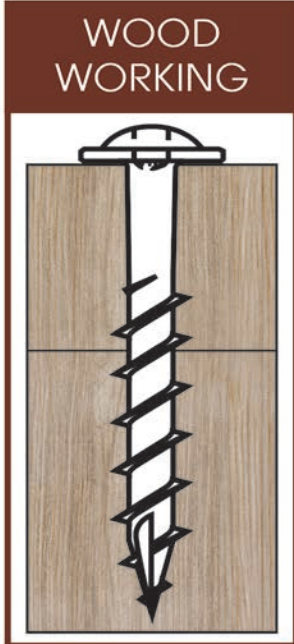
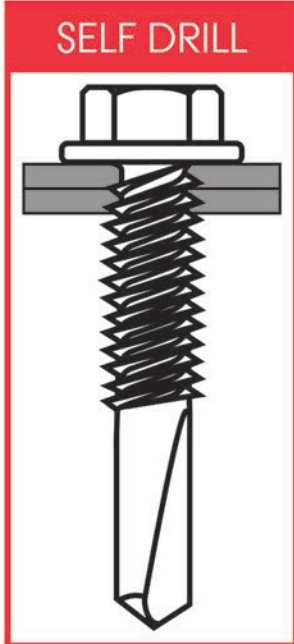
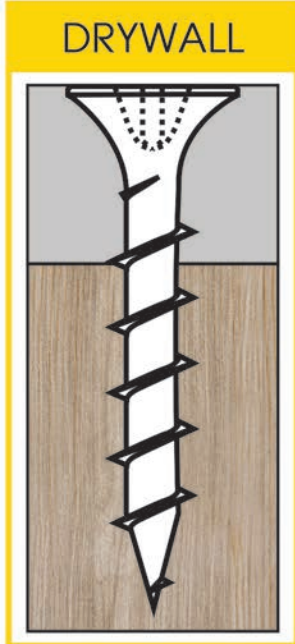
Vendor Spotlight

BRONZE SPONSOR

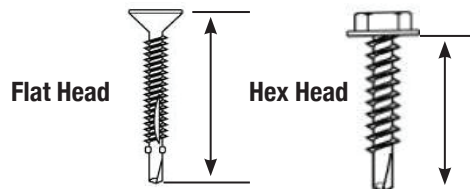
CHAMPION
CUTTING TOOL CORP.



www.championcuttingtool.com



embedment, means your fastener should be a minimum of 1-3/4" long. (Dimensional lumber measurement for a 2" x 4" is 1-1/2" thick.)



The length of a fastener is measured from the bearing surface of the fastener to the end of the point. For example, the flat or countersunk head is measured from the top of the head to the end of the point. A hex washer head is measured from under the head to the end of the point.

The length of some self-drilling screws may require special consideration since

Continued on page 13

some designs have an unthreaded pilot section or reamer wings between the threads and the drill point. These features may be necessary for the application, and are considered in the overall length of the fastener. However, the grip range of the drill screw will be different. It is still required that three threads be exposed for a good connection.

HEAD STYLE

Common head styles include: bugle, flat, wafer, truss, modified truss, hex, hex washer head, pan, round washer, trim, pancake and flat truss.

Head styles are determined by the application first, then preference and availability.

Example 1. Steel-to-Steel connections would require a head style with some bearing surface on top of the material being connected. These styles would include pan head, modified truss, pancake head or hex washer head. When sheathing is to be applied over the steel, a low profile head style such as a pancake head or modified truss is required.

Example 2. Plywood to steel or wood would normally require a fastener that would counter-sink and flush with the plywood. You would choose a flat or wafer head.

DRIVE TYPE

Drive types are usually determined by preference and availability.

Common drive types include: Phillips, Hex, Square, Slot, Combination Square/Phillips and Star.

THREAD TYPE

Coarse Thread – Used primarily for sheathing to wood or wood to wood applications.

Hi Low Thread – A multi-use thread for use into wood, plastic and thin gauge steel 20 gauge or less where strip-out is an issue.

Fine Thread – Used in sheathing to steel and steel to steel applications .

Double Lead – Also known as Twin Lead. Has two lead threads at the point of the screw for a rapid start. Many needlepoint screws have twin lead threads.

Deep Coarse Thread – Coarse thread with a very high or deep thread used in wood to wood applications particularly for cabinets and furniture.

MATERIAL

The most common material in construction fasteners and normally specified is low carbon steel. 18-8 Stainless Steel is used when corrosion resistance is required. 410 Stainless Steel is stronger than 18-8, but offers less corrosion resistance. Often, the cost is a factor, as there are many finishes offered to aid in corrosion resistance for far less cost.

FINISH

There are a many finishes to choose from depending on the appearance and level of corrosion resistance required. Refer to the Finishes diagram for specific information.

There are many specialty finishes given trade names by their respective manufacturer. Specifications should be required to show the corrosion resistance they specify.

CODE APPROVALS

Does the application or job call for any specific approvals? Daggerz™ brand fasteners are manufactured to current codes and specifications, including, but not limited to, ASTM C954, ASTM C1002, ASTM C1513, AC118 and SAE J78. In addition, Daggerz™ brand self-drilling hex washer head screws and modified truss screws carry the ICC ESR Code of Approval with the ESR 4229. Daggerz™ brand self-drilling drywall screws, cement board screws and modified truss screws carry the ICC ESL

Continued on page 14



Vendor Spotlight

**DIAMOND
SPONSOR**



Vendor Spotlight

**SILVER
SPONSOR**

When you purchase equipment with the Mi-T-M name on it, you are buying dependable equipment that is designed, built, and tested by good people. Mighty. Damn. Good.

POWERED BY
HONDA

Made in
USA
with Globally Sourced
Components

Mi-T-M
CORPORATION

www.mitm.com | 800-553-9053

Code of Approval with the ESL 1128. Daggerz™ Dagger-con™ brand concrete and masonry screws carry the Miami Dade Code of Approval with the NOA No. 22-0302.02. Spec Data or Submittal sheets are available for every type of fastener and list all codes and required information applicable.

QUALITY ASSURANCE

Daggerz™ brand construction fasteners are manufactured with 1022 carbon steel for sharper, stronger points. This means they can be driven faster, easier and with less fatigue. Each lot of Daggerz™ brand construction fasteners are triple tested for quality – at the factory, in our QC lab before they ship from overseas, and once again upon arrival. Daggerz™ brand construction fasteners are also Head Stamped for traceability.

INSTALLATION

Proper installation tools are required to achieve a sound connection. For steel-to-steel connections using a Number 10 screw or smaller, a maximum of 2500 rpm tool should be used. For No. 12 and 1/4” drill screws, the tool should have a maximum rpm of 1500. An adjustable torque and clutch is recommended for all steel to steel connections to help prevent stripping of the connection. All connections requiring the fastener to countersink must use a depth sensitive nosepiece.

When a screw fails, it is commonly blamed on the quality of the screw. However, more often than not, it is caused by the improper installation or the wrong screw for the application.

There is a saying about having the right tool for the job...but you need to have the right screw as well!

Sphere 1 Directory



President & CEO
Rob Moe
 770-265-0457
 robmoe@sphere1net.com



Executive Vice President of Operations
Mike Shumard
 949-932-3600 or
 714-933-5744
 mikes@sphere1net.com



Senior Director of Cooperative Services
Sharon Boone
 949-932-3600
 sharonb@sphere1net.com



Senior Director of Marketing & Events
Drew Hoyer
 651-324-2081
 DrewH@sphere1net.com



Director of Platform Management
Katherine Washington
 949-932-3600
 katherinew@sphere1net.com



Sphere 1 Corporate Office
 23101 Lake Center Drive • Suite 345
 Lake Forest, CA 92630 • 949-932-3600

President's Message

Rob Moe
President and CEO



Hello Members and Suppliers,

Well, we are in the middle of a "red hot" summer. Passions are high coming out of our Sphere 1 Annual Meeting in Denver, with people around our cooperative happy to be back to seeing customers, re-connecting with old friends, and creating and strengthening those partnerships after almost three years. It was so great to experience some normalcy again!

As a group, we continue to experience incredible success through our first half of the year. With last year going down in history as being one of the best years ever, Sphere 1's Q1 2022's values surpassed our best months from last year, up a robust 29%. We have just finished a Q2 that looks to be equally as solid, setting us up for a strong back half of 2022. Even with members and suppliers still dealing with supply chain issues, increasing costs etc., everyone is still forging ahead to service their customer base – and this shows in our purchase values. Simply put, our cooperative is doing extremely well, despite all we have had to handle over the last few years.

Our 22nd Annual Meeting was a big success. Our leadership at Sphere 1 cannot thank you enough for your level of support for one another. We wanted to shake things up a bit, have some new experiences, and because of you, we far exceeded our expectations for this year's event. The feedback, pertaining to the topics, content, and from our participants, was excellent. We realize that the meeting was not perfect, but we certainly appreciate everyone's hard work and dedication to making it

a successful event. The way that you all embraced and supported **Building Homes for Heroes** at our Awards Dinner was AMAZING. While I know we've shared this recently, it's worth sharing again - You all raised more than \$150,000 – This helped to pay for one of our hero's homes. Again, nothing short of extraordinary!

Additionally, we have more exciting news: **Drew Hoyer**, our new Sr. Director of Marketing, is a great find for our organization – working alongside Sharon, Katherine and Mike, I think you are going to be impressed with what he will do to help Sphere 1 forge ahead on many different fronts. As we expand our team, look for more good news in the months ahead, continuing to build leadership that strives to exceed your expectations, and provide a path for Sphere 1, as the leaders in the cooperative world.

In closing, note that this issue focuses on some of our leaders in the threaded fastener industry – **Brighton Best, International Fastener, Intercorp** and **Star Stainless**. As we've always said: Sphere 1 is so fortunate as an organization to have the best of the best within our roster of Preferred Suppliers. Please take time to check out what these folks have put together, sharing some great information about innovative products for our industry.

Thank you for your support of Sphere 1 – I can never say that enough. Let's continue to lead from the front, support each other, and create a movement in this industry we can all be proud of together.

Rob



Vendor Spotlight

DIAMOND
SPONSOR



CROSS PINNACLE



FIBERGLASS PLATFORM
TO LEANING LADDER
SERIES FCP 1400HD



Vendor Spotlight

PLATINUM
SPONSOR

NEW

TITANIUM™

CLIMBING STYLE
HELMET



Part # THRXN

NON-VENTED
Meets ANSI/ISEA



Part # THRXV

VENTED
Meets ANSI/ISEA



7 COLORS,
VENTED OR
NON-VENTED

RADIANS®

www.radians.com | 877-723-4267



Vendor Spotlight

BRONZE SPONSOR

THE PERFECT SOLUTION FOR YOUR INDUSTRY

CARPENTER / FRAMER



MODEL #B14S

ELECTRICIAN



MODEL #B240

CONCRETE FOUNDATION SETTER



MODEL #B340



GATORBACK

CONTRACTOR PRO



Vendor Spotlight

BRONZE SPONSOR



PROVIDING YOU WITH THE HIGHEST QUALITY PREMIUM TIE WIRE AND BUILDING PRODUCTS

www.marmacinc.com
800-541-2461



Welcome New Preferred Suppliers



As a CRH company, Oldcastle APG is part of one of the largest global networks of manufacturers in the architectural products industry. We create. We build. We innovate. Most

importantly, we care for our people and our planet.

Over the years, our growth has been fueled by an entrepreneurial spirit and a family mindset. We believe in doing business the right way, which means that safety is a top priority and when we give our word, we keep it.

We build enduring relationships and we care for each other's safety and well-being. We do what we say, we live by our word and we collaborate to deliver as one team. We achieve impact globally through local delivery, entrepreneurial drive and environmental stewardship. We strive to shape the next generation of sustainable building materials and solutions.

Brett Polachek is the Primary Contact for Oldcastle. He may be contacted at **678-462-9870** (cell) or **brett.polachek@oldcastle.com**.

Please visit www.oldcastle.com for more company and product information.



Rust-Oleum was founded on the principle of creating innovative products. And, after 100 years, we're just getting started!

Starting with just 24 colors of paint, Rust-Oleum has grown to be a global leader in manufacturing innovative coatings that empower do-it-yourselfers and professionals alike. We strive to honor the same innovative spirit that started Rust-Oleum a century ago in all our categories, including small project

paints, cleaners, primers, automotive, industrial, high-performance coatings, wood care and more.

Rust-Oleum's Primary Contact is **Jim Weldon**. Jim may be reached at **jweldon@rustoleum.com** or **847-922-7153** (cell).

For product and company information please visit www.rustoleum.com.

Welcome New Preferred Suppliers



SOUDAL

Since its foundation by **Mr. Vic Swerts**, **Soudal** has been one of the most important European manufacturers of silicone sealants.

In 1966 Swerts bought a small company based at the Ossenmarkt in Antwerp and specialised in welding materials and the production of polyester putties for the car body repair. After two years the company moved to Turnhout, at the former market of Mr Swerts' parents. He invested heavily in a sophisticated vacuum mixer for the production of polyester putties and high quality

silicone sealants. The first year in Turnhout, production output of silicone sealants was 5,000 cartridges.

Since then the company has grown from a small family business to the multinational corporation it is today.

Craig Steen is the Primary Contact for Soudal. He may be reached at **412-515-7801** (cell) or **craig.steen@soudal.com**.

Please visit www.soudalusa.com for more company information.



WinFab specializes in the manufacture of high performance industrial fabrics designed for civil engineering and environmental applications. We are geosynthetic manufacturers and suppliers of geotextiles, including civil and environmental non-woven fabrics, silt fences for DOT and commercial applications, ground cover fabrics for the nursery industry, and geosynthetic fabrics for the construction industry.

The Primary Contact for WinFab is **Neil Sichel**. Neil may be contacted at **912-592-5426** (cell) or **neil@winfabusa.com**.

Please visit www.winfabusa.com for more product and company information.



Vendor Spotlight

**PLATINUM
SPONSOR**



ERIN ROPE CORPORATION

HIGH-QUALITY
ROPE & PULLING
PRODUCTS



CONTACT US TODAY

sales@erinrope.com
708-377-1084



Vendor Spotlight

**BRONZE
SPONSOR**



**Spills Happen... Be Prepared
With Spilfyter® Spill Kits!**



(800) 615.8699 www.liquidsafety.com



Vendor Spotlight

DIAMOND SPONSOR

Southwire®

LIGHTING SOLUTIONS



Vendor Spotlight

BRONZE SPONSOR

DEWALT 20V

BUILT FOR COMFORT AND EFFICIENCY.

DXSP190681 4G 20V MAX LITHIUM-ION POWERED BACKPACK SPRAYER

ALSO AVAILABLE **BARE TOOL DXSP190681B**
* 2.0 Ah BATTERY AND CHARGER NOT INCLUDED

VARIFLO MULTIPLE SETTINGS FOR VERSATILE SPRAYING

THE FOUNTAINHEAD GROUP
1-800-331-9903

For ordering information contact:
Harry Brennan
Director of Sales
hbrennan@thefgi.com
(443) 377-4033

Compatible with DEWALT® FLEX VOLT® 20/60V MAX* Battery Packs.

* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

GUARANTEED TOUGH!

Welcome New Sphere 1 Members



Christiansen Fasteners

dba: Tool Tech Construction Supply

Livermore, CA • 925-570-5493 (cell)

Contact: Rob Christiansen • rob@christiansenfasteners.com

www.christiansenfasteners.com



Greenwald Supply Direct

Hyattsville, MD • 301-658-2420 (cell)

Contact: Jimmy Greenwald • jimmy@greenwaldsupply.com

www.greenwaldsupply.com



SOUTHERN REBAR & SUPPLIES

Southern Rebar & Supplies

Knoxville, TN • 865-687-7220

Contact: John Salsbery • john.salsbery@southernrebar.com

www.southernrebar.com



Stoll Bros Lumber Inc.

Odon, IN • 812-636-4053

Contact: Leroy Stoll • leroy@stollbros.com

www.stollbros.com



Triboro Contractors Supply

Hoboken, NJ • 201-726-8658 (cell)

Contact: Joe Pelusio • joep@triborocorp.com