

NFDA TODAY: Your National Fastener News

November 2018



President's Message

By Kelly Cole

WOW! Summer was here and gone so fast this year. I want to thank everyone who came to the June meeting in Chicago. It was a great event and we look forward to seeing everyone at our next big event, the NFDA/MWFA/Pac-West Joint Conference, March 13-16, 2019 in San Diego. Many of you will be ready for some needed sunshine by then. This joint conference will be EPIC! Having the three largest associations team up for a single event speaks volumes for our efforts to collaborate and bring the most value to our membership. These multi-association events provide a venue for our distributor members to visit with their prime suppliers in a distilled and private setting, unlike any other event. San Diego offers so much to our visiting members. The Gaslamp Quarter downtown is a phenomenal place to visit and we look forward to hosting ALL association members next year. Don't forget to sign up early for your discounts. For you NASCAR fans, the Auto Club Speedway, Auto Club 400 is Sunday, March 18, so buckle up and join me in the infield (BK5-6-140 straight through the tunnel).

I'd like to remind everyone about our scholarship program. Each year, the board allocates \$10,000 to our member company employees for Fastener Training Week. In some years, these funds go unused. I want to encourage all of you to utilize this significant member benefit. NFDA has funded training and education for many of your employees over the years and we want to do more. Apply online at nfda-fastener.org/FTIScholarship

I was invited to speak on behalf of the association at the UDIB Fastener Fair in Milan, Italy regarding business in North America. It was a great honor to appear on behalf of our association. With all the political events looming, tariff talk and just America being America, it was a hoot! My hosts and some other guests were very vocal about a world fastener association. It seems like fragmentation is a global issue and may be worth considering as an area for improvement here in the states.

The International Fastener Show at Mandalay Bay in Las Vegas has just concluded and Halloween will never be the same! If you met with any prospective NFDA members, remember, your dues can be reduced by \$1,000 for referring a new company to the association once their membership has been approved.

I hope you all have a wonderful fall and a special holiday season. See you in 2019.

Kelly



Associate Chair's Message

By Bruce Hayes

Following Adam Pratt, the past Associate Chair, is a tough job. I want to thank him for the time and talent he lent to our organization.

The upcoming event in March is of great importance. March 13-16, 2019 in San Diego California, NFDA, MWFA and Pac-West will all participate in a joint conference. This is a historic event and I am sure everyone can agree this will be a great opportunity to network with your customers and exchange ideas with a large cross-section of your fastener peers in an intimate venue.

The Board continues to strive to add value to our membership. Prior to joining the Board, I was actively attending meetings but never took the time to research all of the value propositions being a member of NFDA affords us. I urge you to do this. You can view the full list of member benefits at nfda-fastener.org/membership-benefits

Over the next few months I will be resuming the Associate Member conference calls Adam had begun during his term as chair.

I look forward to working with all of you.

Bruce

nfda-fastener.org

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NFDA Events

2019 NFDA/MWFA/Pac-West
Joint Conference

March 13-16, 2019

Omni San Diego Hotel
San Diego, California

2019 Annual Meeting

June 10-11, 2019

Hilton Cincinnati Netherland Plaza
Cincinnati, Ohio



Join us at the Joint Conference in San Diego!

March 13-16, 2019 NFDA will have a joint meeting with the Mid-West Fastener Association along with the Pacific-West Fastener Association in San Diego, California.

Because his session was so well received at the March meeting, we are bringing back speaker Dirk Beveridge to talk about innovation in your business. Other educational sessions will include a panel discussion on the future of fastener distribution and an economic update provided by Dr. Chris Thornberg from Beacon Economics.

We'll also have roundtable discussions: one for business owners and one for your company's key executives. The roundtable format allows for smaller group discussions, making input easier, plus you can submit topics for discussion in advance.

Among the optional activities offered will be the Brew Hop. San Diego is known as a center of the craft beer movement and on this tour, you'll get a sampling of interesting brews accompanied by street tacos!

The host hotel will be the Omni San Diego which is in the heart of the historic Gaslamp Quarter and just minutes away from the world-famous San Diego Zoo and the museums of Balboa Park. San Diego is easy to get to from most anywhere in the U.S. and the hotel is only 4 miles from the airport – we hope to see you there!

Online registration will be available soon at nfda-fastener.org



University of Innovative Distribution

Since 1994, the University of Innovative Distribution (UID) has been a renowned educational program focused on the unique needs of the wholesale-distribution industry. Known worldwide for excellence in education, UID is sponsored by the leading distribution trade associations, in cooperation with the Innovative Distribution Program at Purdue University.

The faculty are made up of industry leaders; university professors, industry experts, and consultants with real world experiences. Plus, the networking opportunities are numerous both inside and outside of the classroom. NFDA member Kameron Dorsey (Beacon Fasteners & Components) who attended the program in 2017 noted, *"I was able to have numerous interactions with business leaders from organizations that were in distribution but outside of our industry. They provided me with different perspectives and ideas about dealing with similar challenges."*

The 2019 University of Innovative Distribution program will take place March 10-13 at the JW Marriott Indianapolis IN. NFDA members receive a \$1,000 discount. Check univid.org for more details.

NFDA member Giovanni Cespedes (Falcon Fastening Solutions) had this to say about the program: *"As a company we believe in the value of continuous improvement; we understand that to better serve our customers we need to improve ourselves first, and what better way to improve ourselves than attending an educational program that is specific to our industry, given by experts in the industry and where you have the opportunity to network and create friendships that will help you in your day to day activities."*

Fastener Training Week Scholarships

NFDA has awarded three scholarships for Fastener Training Week, an advanced fastener technical training program produced by the Fastener Training Institute.

- Brian Goolie, inside sales/customer service, Empire Bolt & Nut, Spokane, Washington
- Laura Lamanna, engineering/quoting, Buckeye Fasteners, Cleveland, Ohio
- David Pawletki, senior applications engineer, Shamrock International, Itasca, Illinois

Applicants were evaluated based on the recommendation from their employer, personal achievements, work experience, and an essay. Identifying information was redacted, so the team evaluating the applications did not know the names or employers of those applying.

The next deadline to submit a scholarship application is **December 1**. Any NFDA member company's employees are eligible to apply. The application can be found at nfda-fastener.org/FTIScholarship

Visit FastenerTraining.org for more information about Fastener Training Week and all of FTI's educational programs.

Take advantage of this great opportunity. A benefit for NFDA members only!



Brian Goolie



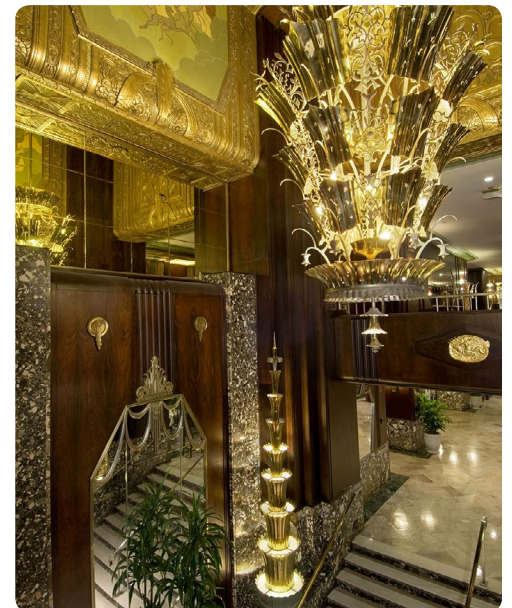
Laura Lamanna



David Pawletki

Save the Date!

June 10-11, 2019 NFDA's Annual Meeting will be at the Hilton Cincinnati Netherland Plaza in Cincinnati, Ohio. Open since 1931, this National Historic Landmark Hotel is just blocks away from a streetcar stop which connects to popular Cincinnati destinations. Save the date!





NFDA Fastener Standards Activity Update - Q3 2018

By John Medcalf

Attention Distributors of Case-Hardened Screws:

Are you a distributor of thread forming, thread cutting, or thread rolling screws manufactured per ASME B18.6.3? Have you ever had to deal with hydrogen embrittlement failures of these parts?

- If so, what kind of costs have you incurred?
- If not, is it due to solid risk management techniques, or luck?

I truly believe fasteners should be considered engineered components and not just commodity-grade parts. However, I must also acknowledge that tapping screws are bought and sold in such quantities they don't always get the attention they deserve in terms of ensuring:

- They meet hardness specifications.
- They have received appropriate baking.
- They have been tested for hydrogen embrittlement (HE).

As a result, HE failures occur with these products, typically due to excessive core hardness.

If you are familiar with the ASME B18.6.3 specification, you know the core hardness range for these screws is HRC 28 – 38, but a cautionary note recommends limiting core hardness below HRC 36. Regular readers of this column also know this specification is currently under revision.

One proposal is to change the core hardness requirement to HRC 28 – 36. While this is essentially standard practice for domestic manufacturers, it will be a change for parts manufactured overseas. **This is only a proposal and has not been approved as part of the standard to date.** However, it would be wise for distributors of these products to prepare for this possibility. If the change is adopted across the industry, I would expect minimal impact, and this update may help save on costs incurred for baking in the future.

If you buy and/or sell these products and have an opinion on this potential change, this is your chance to voice your opinion and be heard by the standardization committee. I can be contacted at standards@nfda-fastener.org

Technical background on this topic can be found at: indfast.org/info/free-technical-info.asp under "Hydrogen Embrittlement" Article 7.

John Medcalf is Engineering and Business Lead for Peak Innovations Engineering and is NFDA's technical representative.

Communication between NFDA members and the NFDA technical standard representative (the "Representative") through email or otherwise is provided by NFDA as a courtesy to its members. NFDA provides no assurance as to the accuracy, completeness, or timeliness of any statement made by the Representative to the member or fastener technical standards organizations. Neither NFDA nor the Representative makes any representation as to whether any statement of the Representative is consistent or compliant with fastener technical standards. Neither NFDA nor the Representative shall be responsible for any loss or damage suffered by the member or any other person as the direct or indirect result of any statement made by the Representative.



Member Benefit Spotlight

The Freedonia Group: Discounts on Fastener Market Reports

The Freedonia Group, a leading international business research company, now offers a 50% discount to NFDA members for the remainder of 2018 on U.S. and global fastener market reports:

- US Industrial Fasteners Market (freedoniagroup.com/industry-study/industrial-fasteners-3413.htm)
 - Retail price: \$5,300 Individual | \$7,900 Corporate
 - NFDA Member Price: \$2,650 Individual | \$3,950 Corporate
- Global Industrial Fasteners Market (freedoniagroup.com/industry-study/global-industrial-fasteners-by-product-and-market-9th-edition-3482.htm)
 - Retail Price: \$6,500 Individual | \$9,100 Corporate
 - NFDA Member Price: \$3,250 Individual | \$4,550 Corporate

The Individual Use License (IUL) authorizes a single individual to use the electronic study acquired. Agreement to the Individual Use License is required in order to purchase the study electronically. The first Individual Use License is included in the study price. Additional IULs may be purchased. If your organization requires more than five user access to a study in electronic form, the Corporate Use License should be purchased.

The Corporate Use License (CUL) allows everyone in your organization to share the study intelligence. Agreement to the Corporate Use License terms is necessary in order to purchase it.

Founded in 1985, The Freedonia Group provides clients with critical market research through the publication of more than 400 research studies annually and customized research engagements. More than 90% of the industrial companies in the Fortune 500 use Freedonia research to help with their strategic planning.

This is a benefit for NFDA members only! To take advantage of this offer, login at nfda-fastener.org/membership-benefits-members-only and scroll down to the Freedonia Group bullet. If you're a member and you don't know your login, email marci@nfda-fastener.org

John Medcalf was appointed as the NFDA technical standards representative to allow the NFDA membership not just visibility of standards activities, but also a voice in the process.

NFDA members are encouraged to express their comments or concerns relating to fastener standards. The only way to influence the process is to stay engaged and participate.

Members can:

- Inquire about changes in drafts noted in the quarterly reports
- Raise suggested revisions or technical updates to standards
- Ask general standards related questions
- Offer feedback to continue refinement of these articles

Please email your standards related comments, concerns or questions to John at standards@nfda-fastener.org

Welcome New NFDA Members

AALL AMERICAN Fasteners
aallamericanfasteners.com

Bayou City Bolt & Supply
bayoucitybolt.com

Solution Industries
solutionind.com

Warren Fastenings South
warrenfasteningsouth.com

Western Wire Products Company
westernwireprod.com



Risk Management and Your Quality Management System

By Rob LaPointe

If you're a fastener distributor (or any other role in the fastener industry), there's a good chance you operate your business with a Quality Management System (QMS) in place. For some, your QMS is a fully accredited and fundamental function of your business. For others, your QMS may be a formal system you follow without having accountability to any authorizing organization. Still others may be operating without any formalized QMS in place but have policies and procedures that guide you in delivering a suitable and predictable high-quality product to your customers.

Wherever you are on the QMS spectrum, the general goal of every successful business is to deliver everything your customer expects and more. It is this MORE that can get you in trouble if you don't pay attention to the risk that may be lurking around the corner.

The most standardized and conforming QMS is ISO 9001:2015 (iso.org/iso-9001-quality-management.html). The 2015 edition of 9001 boasts a major revolution in adaptability to any business. Moving strongly away from being a manufacturing quality system, ISO 9001:2015 is ultimately flexible and can be molded into a highly-functional QMS for any business. ISO 9001:2015 has several overarching threads that are woven through the QMS that form a foundational quality approach for any business. These fundamental threads include leadership, planning, monitoring, and risk and opportunity management.

Risk management is a thread that is often side-lined in favor of more pressing or present aspects of the QMS. Conformance to the QMS itself or to customer requirements are usually the front-line concerns of quality managers and other top management who administer the QMS. However, time spent on assessing risk for your company could pay-off substantially if you have the foresight needed to identify and mitigate potential risks to your procedures, products, delivery system, and ultimately, your customers. When you get to the bottom line, we're talking about risk to your business.

Assessing risk is somewhat of a "What If?" exercise, similar to what an insurance company does when they offer you a health, homeowners or auto policy. Insurance companies have long been collecting data on the probability of events occurring when they know certain contributing factors are present. This is why they ask questions during the application process. By collecting this data and calculating probabilities, insurance companies know they can make a profit with risk, providing there is management.

Most other types of businesses, perhaps yours, view risk only as a liability. This view is likely supported by the observation that risks usually involve expense rather than revenue. If this liability-risk relationship were exclusively true, there would be no such thing as an insurance company. The fact is insurance companies view risk as an asset rather than a liability and your company should too. To move your risk from a liability to an asset, you must manage your risk. You must identify, value and place an accurate probability of occurrence for risks facing your company. It is only after characterizing the risk, that you should plan and implement mitigation strategies to turn that liability-risk into an asset-risk.

For example, in the healthcare industry, most of the liability-risk for an insurance company is prescriptive care. That is, care provided for a patient after a sickness or disease has been diagnosed. This ultimately costs the insurance company more money than if they had spent money to mitigate the risk of the patient contracting the sickness or disease. Prevention is an asset-risk strategy that creates revenue for the insurance company by limiting its expenses. Therefore, all healthcare insurance companies advertise and promote preventative care far and above prescriptive care. They are in business to make money and they know that risk management means profit.

Managing your company's risk may seem daunting at best to nearly impossible to imagine what risks your company faces. Let alone, how to move those risks from liability-risks into asset-risks. If this is the case, you should seek help in the form of a risk evaluation and management consultation. Having an outside professional assess and evaluate your position in the supply-chain with identification and mitigation strategies could move the risk your business faces from an expense to a profit.

Rob LaPointe is with Carver Consulting and can be reached at 619-440-5888 or robl@aimtestlab.com

Training Opportunities

The Fastener Training Institute® has the following upcoming opportunities to increase your fastener knowledge:

- November 16 Webinar: Nuts, Nuts and More Nuts - Online
- December 3 -7 Fastener Training Week - Cleveland, Ohio
- December 18 Fastener Basics - Costa Mesa, California



**FASTENER
TRAINING
INSTITUTE**

NFDA members receive discounted registration on FTI seminars and webinars.

For more information and a list of all FTI events visit FastenerTraining.org.



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HEX CAP SCREWS		STANDARD
400	Hex Cap Screws 18-8 Stainless Steel	ASME B18.2.1, ASTM F593
401	Hex Cap Screws 316 Stainless Steel	ASME B18.2.1, ASTM F593
864	Hex Cap Screws 18-8 Stainless Steel - Full Thread	ASME B18.2.1, ASTM F593
W29	Serrated Flange Hex Head Screw with Wax 18-8 Stainless Steel - Full Thread	ASME B18.2.1, ASTM F593
830	Hex Cap Screws A2 Stainless Steel - Partial Thread	DIN 931 / ISO 4014
830	Hex Cap Screws A2 Stainless Steel - Full Thread	DIN 933 / ISO 4017
797	Hex Cap Screws A4 (316) Stainless Steel - Partial Thread	DIN 931 / ISO 4014
798	Hex Cap Screws A4 (316) Stainless Steel - Full Thread	DIN 933 / ISO 4017

NUTS		STANDARD
762	Hex Nuts 18-8 Stainless Steel	ASME B18.2.2, ASTM F594
763	Hex Nuts 316 Stainless Steel	ASME B18.2.2, ASTM F594
766	Hex Jam Nuts 18-8 Stainless Steel	ASME B18.2.2, ASTM F594
V70	Hex Jam Nuts 316 Stainless Steel	ASME B18.2.2, ASTM F594
769	Heavy Hex Nuts 18-8 Stainless Steel	ASME B18.2.2, ASTM F594
746	Heavy Hex Nuts 316 Stainless Steel	ASME B18.2.2, ASTM F594
W71	Grade 8 Heavy Hex Nut 18-8 Stainless Steel	ASME B18.2.2, ASTM A194
W72	Grade 8M Heavy Hex Nut 316 Stainless Steel	ASME B18.2.2, ASTM A194
310	Nylon Insert Locknuts 18-8 Stainless Steel	IFI-100/107-2002
311	Nylon Insert Locknuts 316 Stainless Steel	IFI-100/107-2002
045	Hex Flange Nuts Serrated 18-8 Stainless Steel	IFI-145, ASTM F594
046	Hex Flange Nuts Serrated 316 Stainless Steel	IFI-145, ASTM F594
569	Acorn Nuts 304 Stainless Steel 1 Piece	
767	KEPS-Lock Hex Nuts 18-8 Stainless Steel	
764	Machine Screw Hex Nuts 18-8 Stainless Steel	ASME B18.2.2, ASTM F594
W76	Machine Screw Hex Nuts 316 Stainless Steel	ASME B18.2.2, ASTM F594
048	Hex Coupling Nuts 18-8 Stainless Steel	
056	Hex Coupling Nuts 316 Stainless Steel	
768	Wing Nuts, Cold Forged 18-8 Stainless Steel	ASME B18.6.9
V01	Wing Nuts, Cold Forged 316 Stainless Steel	ASME B18.6.9
V06	Tee Nuts, 18-8 Stainless Steel	
V07	Hex Weld Nuts, 3 Projections, 18-8 Stainless Steel	
834	Hex Nuts A2 Stainless Steel	DIN 934
560	Hex Nuts A4-70 Stainless Steel	DIN 934
559	Hex Nuts A4-80 Stainless Steel	DIN 934
V71	Hex Thin Nuts A2 Stainless Steel	DIN 439

NUTS		STANDARD
562	Hex Thin Nuts A4 Stainless Steel	DIN 439
561	Nylon Insert Locknuts A2 Stainless Steel	DIN 985
563	Nylon Insert Locknuts A4-70 Stainless Steel	DIN 985
524	Nylon Insert Locknuts A4-80 Stainless Steel	DIN 985
043	Hex Coupling Nuts A2 Stainless Steel	DIN 6334

THREADED ROD		STANDARD
886	All Thread Rod 304 Stainless Steel	ASME B18.31.3, ASTM F593
887	All Thread Rod 316 Stainless Steel	ASME B18.31.3, ASTM F593
890	All Thread Rod B8 Stainless Steel Class 1	ASME B18.31.3, ASTM A193
891	All Thread Rod B8M Stainless Steel Class 1	ASME B18.31.3, ASTM A193
871	All Thread Rod A2 Stainless Steel	DIN 975

PINS		STANDARD
242	Dowel Pins 18-8 Stainless Steel	ASME B18.8.2
245	Dowel Pins 316 Stainless Steel	ASME B18.8.2
243	Dowel Pins 416 Stainless Steel	ASME B18.8.2
551	Dowel Pins A4 Stainless Steel	DIN 7

SOCKET PRODUCTS		STANDARD
012/592	Socket Head Cap Screws 18-8 Stainless Steel	ASME B18.3
014	Socket Head Cap Screws 316 Stainless Steel	ASME B18.3
202/702	Button Socket Cap Screws 18-8 Stainless Steel	ASME B18.3
062	Button Socket Cap Screws 316 Stainless Steel	ASME B18.3
212/712	Flat Socket Cap Screws 18-8 Stainless Steel	ASME B18.3
063	Flat Socket Cap Screws 316 Stainless Steel	ASME B18.3
102/602	Cup Point Set Screws 18-8 Stainless Steel	ASME B18.3
104	Cup Point Set Screws 316 Stainless Steel	ASME B18.3
704	Cone Point Set Screws 18-8 Stainless Steel	ASME B18.3
703	Flat Point Set Screws 18-8 Stainless Steel	ASME B18.3
706	Half Dog Point Set Screws 18-8 Stainless Steel	ASME B18.3
705	Oval Point Set Screws 18-8 Stainless Steel	ASME B18.3
710	Socket Shoulder Screws 18-8 Stainless Steel	ASME B18.3
230	Pipe Plugs 3/4 Taper (DRY SEAL) Brass	ASME B18.20.3
232	Pipe Plugs 3/4 Taper (DRY SEAL) 18-8 Stainless Steel	ASME B18.20.3
538	Socket Head Cap Screws A2 Stainless Steel	DIN 912 / ISO 4762
549	Socket Head Cap Screws A4 Stainless Steel	DIN 912 / ISO 4762
544	Low Head Socket Cap Screws A2 Stainless Steel	DIN 7984

SOCKET PRODUCTS		STANDARD
824	Button Socket Cap Screws A2 Stainless Steel	ISO 7380
861	Button Socket Cap Screws A4 Stainless Steel	ISO 7380
823	Flat Socket Cap Screws A2 Stainless Steel	DIN 7991 / ISO 10642
862	Flat Socket Cap Screws A4 Stainless Steel	DIN 7991 / ISO 10642
539	Cup Point Set Screws A2 Stainless Steel	DIN 916 / ISO 4029

WASHERS		STANDARD
390	Flat Washers Brighton-Best Standard 18-8 Stainless Steel	BB1 STANDARD
391	Flat Washers Commercial Standard 18-8 Stainless Steel	COMMERCIAL STANDARD
398	Flat Washers Commercial Standard 316 Stainless Steel	COMMERCIAL STANDARD
392	Fender Washers 18-8 Stainless Steel	FENDER STANDARD
394	MS15795 Flat Washers 18-8 Stainless Steel	DIMENSIONS TO MS15795
754	Split Lockwashers 18-8 Stainless Steel	ASME B18.21.1
755	Split Lockwashers 316 Stainless Steel	ASME B18.21.1
223	Countersunk Finishing Washers 18-8 Stainless Steel	
369	Flat Washers A2 Stainless Steel	DIN 125A / ISO 7089
836	Split Lockwashers A2 Stainless Steel	DIN 127B

SQUARE HEAD SET SCREWS		STANDARD
408	Cup Point Square Head Set Screws 18-8 Stainless Steel	ASME B18.6.2

MACHINE SCREWS		STANDARD
773	Phillips Pan Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W55	Phillips Pan Head Machine Screws 316 Stainless Steel	ASME B18.6.3
771	Phillips Flat Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W57	Phillips Flat Head Machine Screws 316 Stainless Steel	ASME B18.6.3
772	Phillips Oval Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W59	Phillips Oval Head Machine Screws 316 Stainless Steel	ASME B18.6.3
774	Phillips Truss Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W58	Phillips Truss Head Machine Screws 316 Stainless Steel	ASME B18.6.3
W54	Phillips Fillister Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W51	6-Lobe Pan Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W50	6-Lobe Flat Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W96	6-Lobe Truss Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
V08	6-Lobe Pin-In Flat Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
V09	6-Lobe Pin-In Button Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3

MACHINE SCREWS		STANDARD
727	Slotted Pan Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
726	Slotted Flat Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
728	Slotted Round Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
V60	Slotted Indented Hex Washer Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W52	Square Drive Pan Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W97	Square Drive Flat Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W53	Trimmed Hex Head Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W56	Trimmed Hex Head Machine Screws 316 Stainless Steel	ASME B18.6.3
W12	Regular Thumb Screws, Type B without Shoulder, 18-8 Stainless Steel	ASME B18.6.3
W98	Phillips Pan Head SEMS Machine Screws 18-8 Stainless Steel	ASME B18.6.3
W99	Phillips Pan Head SEMS Machine Screws A2 Stainless Steel	DIN 7985
676	Phillips Pan Head Machine Screws A2 Stainless Steel	DIN 7985
674	Phillips Flat Head Machine Screws A2 Stainless Steel	DIN 965
V95	Slotted Pan Head Machine Screws A2 Stainless Steel	DIN 85
516	Slotted Flat Head Machine Screws A2 Stainless Steel	DIN 963
093	Slotted Cheese Head Machine Screws A2 Stainless Steel	DIN 84

SELF TAPPING SCREWS - TYPE A		STANDARD
792	Phillips Pan Head Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3
W67	Phillips Pan Head Self Tapping Screws 316 Stainless Steel	ASME B18.6.3
790	Phillips Flat Head Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3
W66	Phillips Flat Head Self Tapping Screws 316 Stainless Steel	ASME B18.6.3
791	Phillips Oval Head Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3
W64	Phillips Oval Head Self Tapping Screws 316 Stainless Steel	ASME B18.6.3
793	Phillips Truss Head Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3
W65	Phillips Truss Head Self Tapping Screws 316 Stainless Steel	ASME B18.6.3
673	Indented Hex Washer Head 18-8 Stainless Steel	ASME B18.6.3
W63	Slotted Indented Hex Washer Head 316 Stainless Steel	ASME B18.6.3
W60	Square Drive Pan Head Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3
W62	Square Drive Flat Head Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3
W61	Square Drive Truss Head Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3

SELF TAPPING SCREWS - TYPE AB THREAD		STANDARD
182	Phillips Flat & Phillips Oval Undercut Self Tapping Screws 18-8 Stainless Steel	ASME B18.6.3

SELF DRILLING SCREWS		STANDARD
040	Self Drilling Screws 410 Stainless Steel	ASME B18.6.3
R03	Self Drilling Screws Indent HWH Unslot 410 Stainless Steel W/ 18-8 Bonded Washer	ASME B18.6.3

CARRIAGE BOLTS		STANDARD
781	Carriage Bolts 18-8 Stainless Steel	ASME B18.5, ASTM F593
W69	Carriage Bolts 316 Stainless Steel	ASME B18.5, ASTM F593

LAG SCREWS		STANDARD
782	Hex Lag Screws 18-8 Stainless Steel	ASME B18.2.1, ASTM F593
W70	Hex Lag Screws 316 Stainless Steel	ASME B18.2.1, ASTM F593

ANCHORS		STANDARD
616	PROFERRED UltraWedge™ Anchor 304 Stainless	
617	PROFERRED UltraWedge™ Anchor 316 Stainless	
618	Sleeve Anchor & Hex Nut 304 Stainless	
619	Drop-In Anchor 304 Stainless	

RIVETS		STANDARD
186	PROFERRED Rivets™ Stainless 304 / Stainless 304 Dome Head	IFI-114
037	PROFERRED Rivets™ Stainless 304 / Stainless 304 Large Flange Dome Head	IFI-114
136	PROFERRED Rivets™ Stainless 304 / Stainless 304 Countersunk	IFI-114
137	PROFERRED Rivets™ Stainless 304 / Steel Countersunk	IFI-114
W33	PROFERRED Rivets™ Stainless 304 / Stainless 420 Grooved Dome Closed End	IFI-126

CONSTRUCTION SCREWS		STANDARD
V03	Phillips Drive Bugle Head Deck Screw, Type 17, 18-8 Stainless Steel	
V02	Square Drive Bugle Head Deck Screw, Type 17, 18-8 Stainless Steel	
V05	Square Drive Bugle Head Deck Screw, Type 17, 316 Stainless Steel	
V04	Square Drive Flat Head Deck Screw, Type 17, 4 Nibs, 18-8 Stainless Steel	





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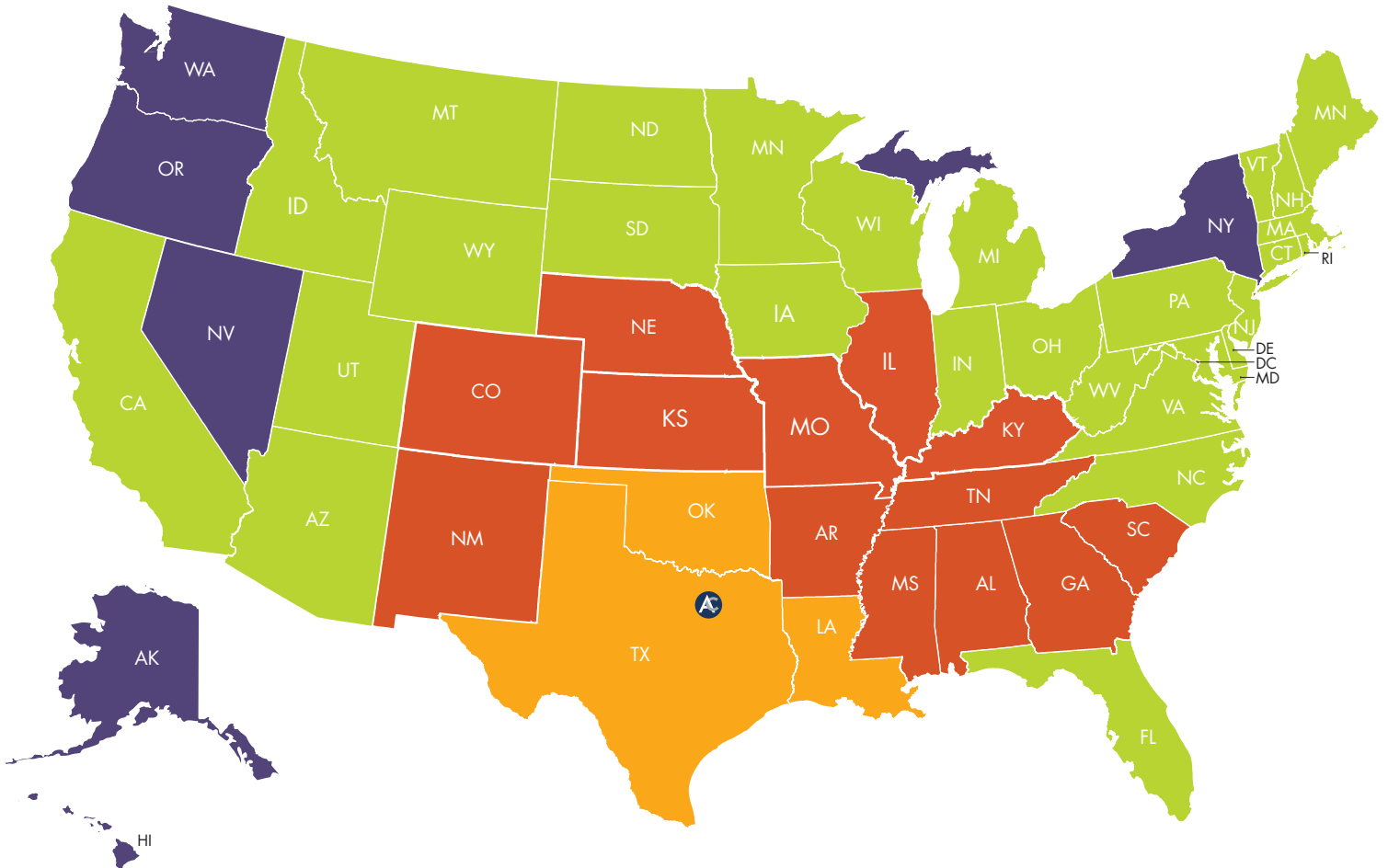
2
**HEYCLIP™
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securely hold 2 cables in place at a 90° angle for PV modules in the landscape mode.

3
**HEYCLIP™
SUNRUNNER®
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provide superior wire management for 4 cables on PV modules in landscape mode.

4
**HEYCLIP™
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Approximate Order Weight: 55.5 lbs.

(Use Default Shipping Method)

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Ground Options

Freight Options

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Shipping Billing:

Packing Basis:

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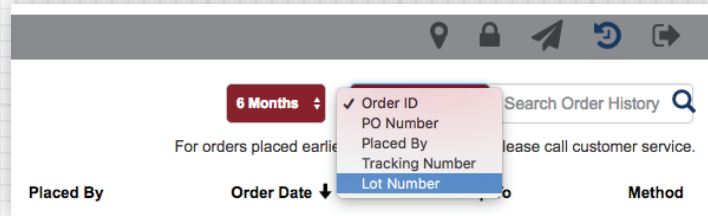
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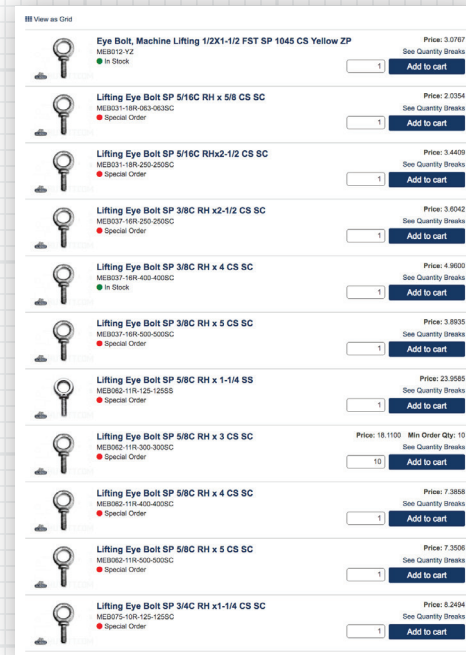
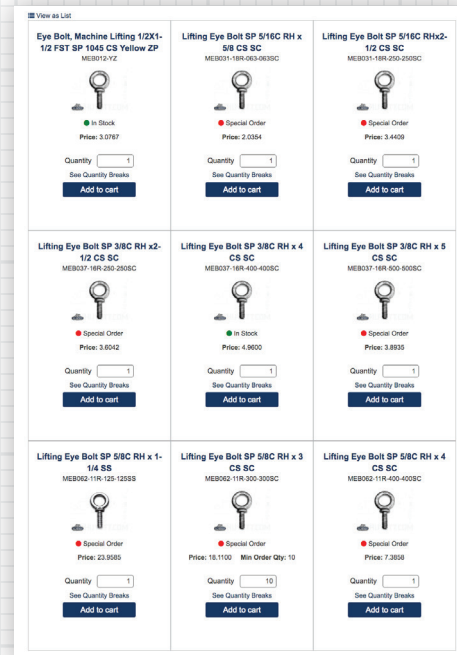


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BRAND

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MATERIAL

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 Zinc Clear
 Zinc Coating
 Zinc Yellow

TYPE

Coiled MS Spring Pin
 Coiled Spring Pin
 Slotted MS Spring Pin
 Slotted Spring Pin

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Inch

DUTY

Heavy Duty
 Light Duty
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MATERIAL GRADE

302
 302/304
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