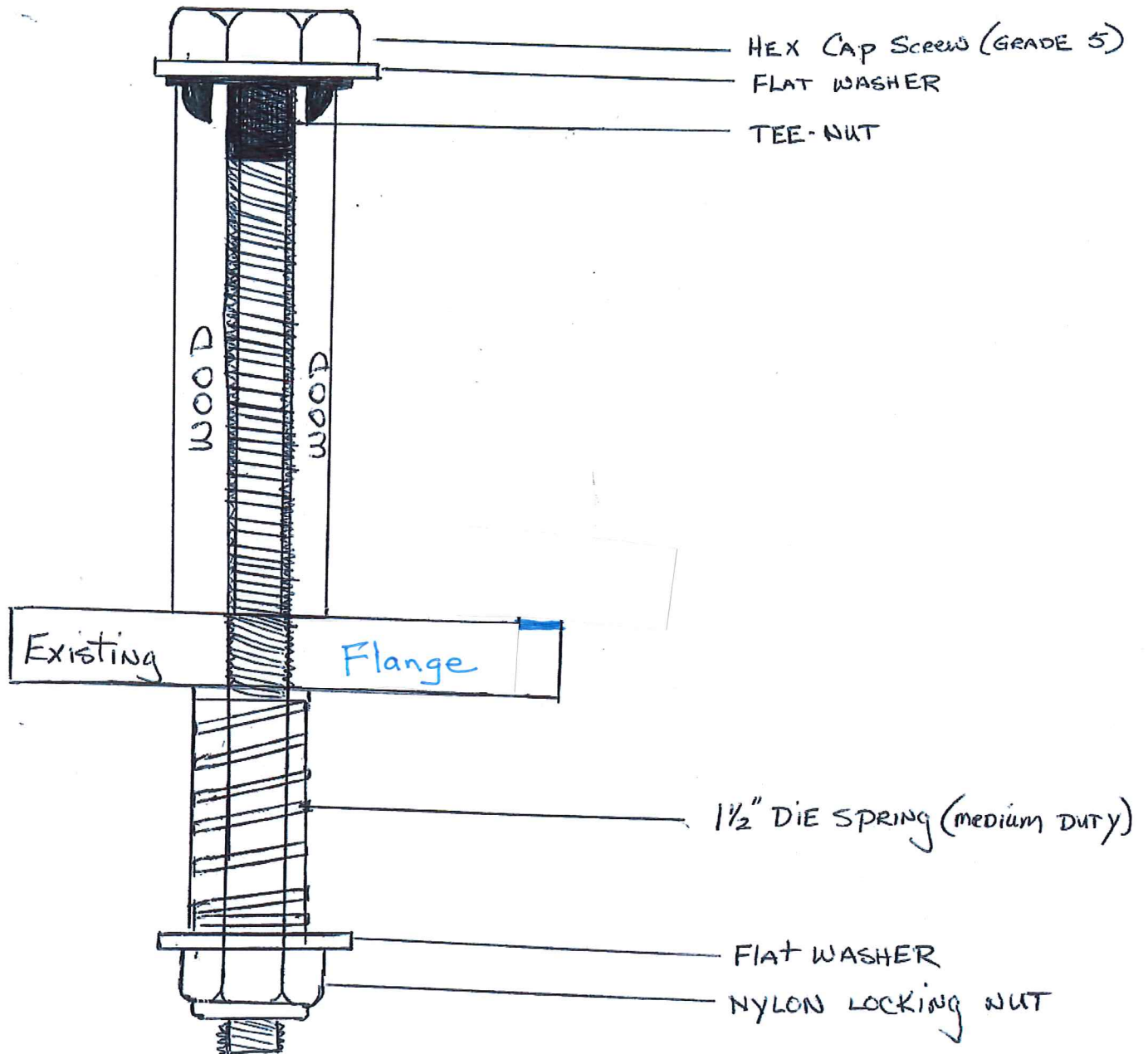


# BRIDGE - DECK HARDWARE

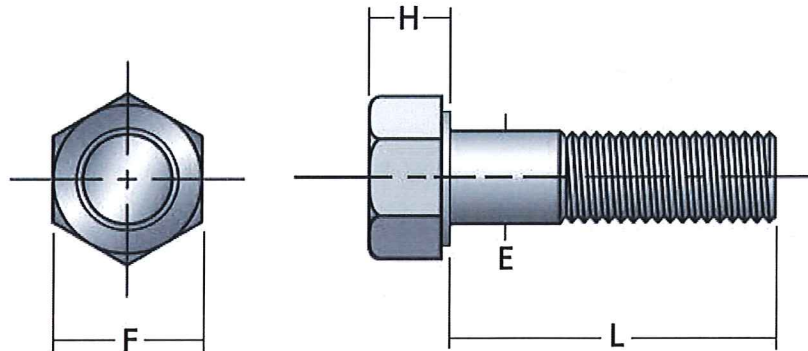


QTY	PART #	DESCRIPTION
120	10859	3/8 - 16 x 8 TAP Bolt Z
240	1133008	3/8 x 1" OD LOW CARBON ZINC FLAT WASHER
120	1137968	3/8 - 16 x 7/16 TEE NUT
120	0300256	5/8 OD x 11/32 ID 1 1/2" Blue Med DIE Spring
120	1137014	#10-24 NYLON LOCK NUT

Page 1 of 1	Fastenal Product Standard	REV-08
Date: March 7, 2016	<b>FASTENAL</b>	HCS.GR5.Z

## Hex Cap Screws, Grade 5, Zinc Plated

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



Size (Inch)	E		F		H	
	Full Size Body Diameter		Width Across Flats		Head Height	
	Max.	Min.	Max.	Min.	Max.	Min.
1/4	0.2500	0.2450	0.438	0.428	0.163	0.150
5/16	0.3125	0.3065	0.500	0.489	0.211	0.195
3/8	0.3750	0.3690	0.562	0.551	0.243	0.226
7/16	0.4375	0.4305	0.625	0.612	0.291	0.272
1/2	0.500	0.4930	0.750	0.736	0.323	0.302
9/16	0.5625	0.5545	0.812	0.798	0.371	0.348
5/8	0.6250	0.6170	0.938	0.922	0.403	0.378
3/4	0.7500	0.7410	1.125	1.100	0.483	0.455
7/8	0.8750	0.8660	1.312	1.285	0.563	0.531
1	1.0000	0.9900	1.500	1.469	0.627	0.591
1 1/8	1.1250	1.1140	1.688	1.631	0.718	0.658
1 1/4	1.2500	1.2390	1.875	1.812	0.813	0.749
1 1/2	1.5000	1.4880	2.250	2.175	0.974	0.902

Length and Thread Length per ASME B18.2.1

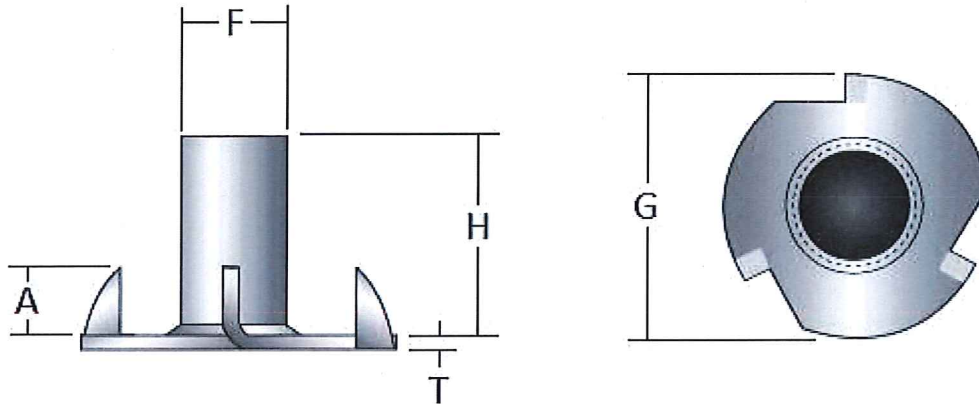
### Specification Requirements:

- Dimensions: ASME B18.2.1
- Material & Mechanical Properties: Grade 5 per SAE J429
- Thread Requirements: ASME B1.1, UNC & UNF, Class 2A
- Head Marking: Manufacturer ID and 3 radial lines 120 degrees apart.
- Finish: Fe/Zn 3AN per ASTM F1941/F1941M
- Material Test Reports: The MTR must have documented lot traceability, dimensional results, full chemical test results and full mechanical test results to the specification(s) above. In addition, the MTR shall be in full compliance with Fastenal's MTR Requirements.

Page 1 of 1	Fastenal Product Standard	REV-01
Date: April 8, 2016	<b>FASTENAL</b>	TN.3P.P

### Tee Nuts, Three Prong, Plain Finish

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



Thread Size	H	G	F	A	T	Drill Size
	Barrel Height (+/- 1/32)	Flange Diameter (+/- 1/32)	Barrel Diameter (+/- .015)	Prong Height (+/- 1/32)	Material Thickness (+/- .015)	
#6-32	1/4	1/2	.188	1/8	.035	13/64
#8-32	1/4	23/32	.208	7/32	.030	7/32
#10-24	5/16	3/4	.243	7/32	.040	1/4
#10-24	7/16	3/4	.243	5/16	.040	1/4
#10-32	5/16	3/4	.243	7/32	.040	1/4
#10-32	7/16	3/4	.243	5/16	.040	1/4
1/4-20	1/4	3/4	.305	3/16	.047	5/16
1/4-20	5/16	3/4	.305	7/32	.047	5/16
1/4-20	3/8	3/4	.305	1/4	.047	5/16
1/4-20	7/16	3/4	.305	5/16	.047	5/16
1/4-20	9/16	3/4	.305	3/8	.047	5/16
5/16-18	5/16	7/8	.360	9/32	.047	3/8
5/16-18	3/8	7/8	.390	1/4	.063	25/64
5/16-18	7/16	7/8	.390	1/4	.063	13/32
5/16-18	5/8	7/8	.390	5/16	.063	25/64
3/8-16	5/16	1	.420	9/32	.063	27/64
3/8-16	7/16	1	.440	11/32	.063	29/64

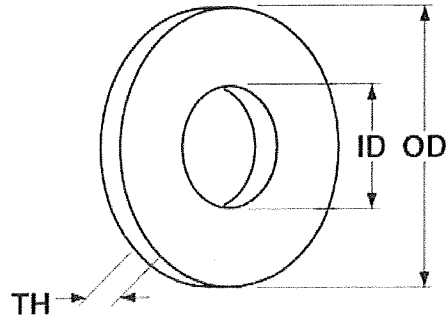
#### Specification Requirements:

- Dimensions: See Table Above
- Material: Carbon Steel
- Thread Requirements: ASME B1.1, UNC, Class 2B
- Finish: Light Protective Oil

Page 1 of 1	Fastenal Product Standard	REV-07
Date: December 3, 2015	<b>FASTENAL</b>	FW.LC.USS.Z

### Flat Washers, Low Carbon, USS, Zinc Plated

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



USS Flat Washers									
Size	ID			OD			Thickness		
	Basic	Tolerance		Basic	Tolerance		Basic	Max.	Min.
		Plus	Minus		Plus	Minus			
3/16	.250	.015	.005	.562	.015	.005	.049	.065	.036
1/4	.312	.015	.005	.734	.015	.007	.065	.080	.051
5/16	.375	.015	.005	.875	.030	.007	.083	.104	.064
3/8	.438	.015	.005	1.000	.030	.007	.083	.104	.064
7/16	.500	.015	.005	1.250	.030	.007	.083	.104	.064
1/2	.562	.015	.005	1.375	.030	.007	.109	.132	.086
9/16	.625	.015	.005	1.469	.030	.007	.109	.132	.086
5/8	.688	.030	.007	1.750	.030	.007	.134	.160	.108
3/4	.812	.030	.007	2.000	.030	.007	.148	.177	.122
7/8	.938	.030	.007	2.250	.030	.007	.165	.192	.136
1	1.062	.030	.007	2.500	.030	.007	.165	.192	.136
1-1/8	1.250	.030	.007	2.750	.030	.007	.165	.192	.136
1-1/4	1.375	.030	.007	3.000	.030	.007	.165	.192	.136
1-3/8	1.500	.045	.010	3.250	.045	.010	.180	.213	.153
1-1/2	1.625	.045	.010	3.500	.045	.010	.180	.213	.153
1-5/8	1.750	.045	.010	3.750	.045	.010	.180	.213	.153
1-3/4	1.875	.045	.010	4.000	.045	.010	.180	.213	.153
1-7/8	2.000	.045	.010	4.250	.045	.010	.180	.213	.153
2	2.125	.045	.010	4.500	.045	.010	.180	.213	.153
2-1/4	2.375	.045	.010	4.750	.045	.010	.220	.248	.193
2-1/2	2.625	.045	.010	5.000	.045	.010	.238	.280	.210
2-3/4	2.875	.065	.010	5.250	.065	.010	.259	.310	.228
3	3.125	.065	.010	5.500	.065	.010	.284	.327	.249

#### Specification Requirements:

- Dimensions: ASME B18.21.1, Type A Plain Washers
- Material: Carbon Steel
- Finish: Fe/Zn 3AN per ASTM F1941/F1941M



## Die Springs

## Medium-duty Die Springs - Blue



Part No.	Mfg. No.	Outer Diameter	Inner Diameter	Length
0300233	13104	3/8"	3/16"	1"
0300234	13105	3/8"	3/16"	1-1/4"
0300235	13106	3/8"	3/16"	1-1/2"
0300236	13107	3/8"	3/16"	1-3/4"
0300237	13108	3/8"	3/16"	2"
0300238	13110	3/8"	3/16"	2-1/2"
0300239	13112	3/8"	3/16"	3"
0300240	13148	3/8"	3/16"	12"
0300241	13204	1/2"	9/32"	1"
0300242	13205	1/2"	9/32"	1-1/4"
0300243	13206	1/2"	9/32"	1-1/2"
0300244	13207	1/2"	9/32"	1-3/4"
0300245	13208	1/2"	9/32"	2"
0300246	13210	1/2"	9/32"	2-1/2"
0300247	13212	1/2"	9/32"	3"
0300248	13214	1/2"	9/32"	3-1/2"
0300249	13218	1/2"	9/32"	4-1/2"
0300250	13222	1/2"	9/32"	5-1/2"
0300251	13226	1/2"	9/32"	6-1/2"
0300252	13230	1/2"	9/32"	7-1/2"
0300253	13248	1/2"	9/32"	12"
0300254	13304	5/8"	11/32"	1"
0300255	13305	5/8"	11/32"	1-1/4"
0300256	13306	5/8"	11/32"	1-1/2"
0300257	13307	5/8"	11/32"	1-3/4"
0300258	13308	5/8"	11/32"	2"
0300259	13310	5/8"	11/32"	2-1/2"
0300260	13312	5/8"	11/32"	3"
0300261	13314	5/8"	11/32"	3-1/2"
0300262	13316	5/8"	11/32"	4"
0300263	13348	5/8"	11/32"	12"
0300264	13404	3/4"	3/8"	1"

Part No.	Mfg. No.	Outer Diameter	Inner Diameter	Length
0300265	13405	3/4"	3/8"	1-1/4"
0300266	13406	3/4"	3/8"	1-1/2"
0300267	13407	3/4"	3/8"	1-3/4"
0300268	13408	3/4"	3/8"	2"
0300269	13410	3/4"	3/8"	2-1/2"
0300270	13412	3/4"	3/8"	3"
0300271	13414	3/4"	3/8"	3-1/2"
0300272	13416	3/4"	3/8"	4"
0300273	13418	3/4"	3/8"	4-1/2"
0300274	13420	3/4"	3/8"	5"
0300275	13422	3/4"	3/8"	5-1/2"
0300276	13424	3/4"	3/8"	6"
0300279	13448	3/4"	3/8"	12"
0300280	13504	1"	1/2"	1"
0300281	13505	1"	1/2"	1-1/4"
0300282	13506	1"	1/2"	1-1/2"
0300283	13507	1"	1/2"	1-3/4"
0300284	13508	1"	1/2"	2"
0300285	13510	1"	1/2"	2-1/2"
0300286	13512	1"	1/2"	3"
0300287	13514	1"	1/2"	3-1/2"
0300288	13516	1"	1/2"	4"
0300289	13518	1"	1/2"	4-1/2"
0300290	13520	1"	1/2"	5"
0300291	13522	1"	1/2"	5-1/2"
0300292	13524	1"	1/2"	6"
0300293	13528	1"	1/2"	7"
0300294	13532	1"	1/2"	8"
0300295	13548	1"	1/2"	12"
0300296	13606	1-1/4"	5/8"	1-1/2"
0300297	13607	1-1/4"	5/8"	1-3/4"
0300298	13608	1-1/4"	5/8"	2"
0300299	13610	1-1/4"	5/8"	2-1/2"
0300300	13612	1-1/4"	5/8"	3"
0300301	13614	1-1/4"	5/8"	3-1/2"
0300302	13616	1-1/4"	5/8"	4"
0300303	13618	1-1/4"	5/8"	4-1/2"
0300304	13620	1-1/4"	5/8"	5"
0300305	13622	1-1/4"	5/8"	5-1/2"
0300306	13624	1-1/4"	5/8"	6"
0300307	13628	1-1/4"	5/8"	7"
0300308	13632	1-1/4"	5/8"	8"
0300309	13640	1-1/4"	3/8"	10"
0300310	13648	1-1/4"	5/8"	12"
0300311	13708	1-1/2"	3/4"	2"
0300312	13710	1-1/2"	3/4"	2-1/2"
0300313	13712	1-1/2"	3/4"	3"
0300314	13714	1-1/2"	3/4"	3-1/2"
0300315	13716	1-1/2"	3/4"	4"
0300316	13718	1-1/2"	3/4"	4-1/2"
0300317	13720	1-1/2"	3/4"	5"
0300318	13722	1-1/2"	3/4"	5-1/2"
0300319	13724	1-1/2"	3/4"	6"
0300320	13728	1-1/2"	3/4"	7"
0300321	13732	1-1/2"	3/4"	8"
0300322	13740	1-1/2"	3/4"	10"
0300323	13748	1-1/2"	3/4"	12"
0300324	13810	2"	1"	2-1/2"
0300325	13812	2"	1"	3"
0300326	13814	2"	1"	3-1/2"
0300327	13816	2"	1"	4"
0300328	13818	2"	1"	4-1/2"
0300330	13822	2"	1"	5-1/2"
0300331	13824	2"	1"	6"
0300332	13828	2"	1"	7"
0300333	13832	2"	1"	8"
0300334	13840	2"	1"	10"
0300335	13848	2"	1"	12"

CUTTING TOOLS &amp; METALWORKING

# ProFitter



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When every dollar counts, count on ProFitter®—products that are built for industrial professionals, and priced to save them money.

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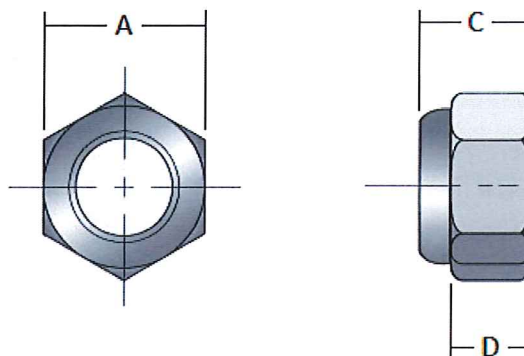
**FASTENAL**

*Fastenal can provide custom, weld-to-length band saw blades fabricated to your precise specifications, tested for quality and delivered to you.*

Page 1 of 1	Fastenal Product Standard	REV-04
Date: April 28, 2017	<b>FASTENAL</b>	NYLK.NE.N2.Z

### Hex Nylon Insert Locknuts (NE), Grade N2, Zinc

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



	Size	C		A		D
		Thickness		Width Across Flats		Hex Height
		Max.	Min.	Max.	Min.	Min.
NE	1/4	.328	.298	.439	.430	.225
	5/16	.359	.329	.502	.489	.250
	3/8	.468	.438	.564	.551	.335
	7/16	.468	.438	.627	.616	.324
	1/2	.609	.579	.752	.736	.464
	9/16	.656	.626	.877	.861	.469
	5/8	.765	.735	.940	.922	.593
	3/4	.890	.860	1.064	1.052	.742
	7/8	.999	.969	1.252	1.239	.790
	1	1.078	1.016	1.440	1.427	.825
	1 1/8	1.203	1.141	1.627	1.614	.930
	1 1/4	1.422	1.360	1.815	1.801	1.125
	1 3/8	1.609	1.547	2.008	1.973	1.282
	1 1/2	1.640	1.578	2.197	2.159	1.313

### Specification Requirements:

- Dimensions: Per ASME B18.16.6
- Material & Mechanical Properties: Nut Material: Carbon Steel, Grade N2 per ASME B18.16.6  
Nylon 6/6 material shall be in compliance with current RoHS European Union Directive
- Performance: Prevailing torque per ASME B18.16.6
- Threads Requirements: ASME B1.1, UNC & UNF, Class 2B
- Product Marking: NOTE: The marking requirement of ASME B18.16.6 will not be required
- Finish: Fe/Zn 3AN per ASTM F1941/F1941M




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CONFIDENTIAL

May 8, 2017

## Image

## Description


**3/8\"-16 x 8\" ASTM A307 Grade A Zinc Plated Steel Tap Bolt**  
**SKU: 10859**

 Shipping: Leaves Indianapolis warehouse in 3-7 days  
[Show Inventory Availability for my local Fastenal store](#)

**3/8\" x 1.000\" OD Low Carbon Zinc Finish Steel USS General Purpose Flat Washer**  
**SKU: 1133008**

 Shipping: Leaves Indianapolis warehouse within 1 business day  
[Show Inventory Availability for my local Fastenal store](#)

**3/8-16 x 7/16 Plain Finish 3 Prong Tee Nut**  
**SKU: 1137968**

 Shipping: Leaves Indianapolis warehouse within 1 business day  
[Show Inventory Availability for my local Fastenal store](#)

**5/8\" OD x 11/32\" ID x 1-1/2\" OAL Blue Medium Duty Die Spring**  
**SKU: 0300256**

 Shipping: Ships direct from manufacturer in 3 days  
[View Shipping Locations](#)

**#10-24 Grade 2 Zinc Finish NM Steel Nylon Insert Lock Nut**  
**SKU: 1137014**

 Shipping: Leaves Indianapolis warehouse within 1 business day  
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# Poles, Inc.

Wood Pole Maintenance Solutions®

Copper Naphthenate Concentrate, 8% as metal, 68% by Volume  
Dilution Rates and Service Area

<i>Application Method</i>	<i>Concentrate Dilution w/Diesel</i>	<i>Concentrate Dilution w/Mineral Spirits</i>	<i>Solution as Metal (% Cu as Metal)</i>	<i>Solution % (Copper Naphthenate by Volume)</i>	<i>*Treated Wood Service Area</i>
<i>Brush 1 Coat</i>	3.5 Gallons of Diesel to 1 Gallon of Concentrate	4 Gallons of Mineral Spirits to 1 Gallon of Concentrate	2%	17% to 19%	Above Ground
<i>Brush Multiple Coats</i>	3.5 Gallons of Diesel to 1 Gallon of Concentrate	4 Gallons of Mineral Spirits to 1 Gallon of Concentrate	2%	17% to 19%	Above Ground *Ground Contact
<i>Dip 24-Hour</i>	8 Gallons of Diesel to 1 Gallon of Concentrate	9 Gallons of Mineral Spirits to 1 Gallon of Concentrate	1%	8% to 10%	Above Ground **Ground Contact

\*Copper Naphthenate is an EPA registered ground contact wood preservative; application must result in enough preservative to protect the wood.

Contact Information:  
Randy S. Gross  
Poles, Inc.  
Office: 719-685-0444



# FLAME STOP® II

## PRODUCT DATA SHEET

**FLAME STOP INC.**  
1-877-397-7867

### DESCRIPTION:

Flame Stop II is a water-based, post-treatment, interior/ exterior fire retardant, and wood preservative that penetrates the material and bonds with the cellular structure. The penetrant protects the substrate by developing a self-extinguishing reaction when the treated material comes in contact with an open flame. When properly applied on certain untreated woods such as Douglas fir, the wood shall have a Class A rating. Flame Stop II contains polymers that maintain the fire retardation for up to five years for exterior applications. Flame Stop II is non-toxic, non-combustible, non-carcinogenic, easy to apply, and contains no PDBE's.

### BASIC USES:

Flame Stop II protects exterior and interior woods such as: porous woods, cedar shake shingles, decking, and structural lumber.

### ADVANTAGES:

Flame Stop II is a Class A, one-coat system with a Flame Spread of 25 and Smoke Developed of 25 on Douglas fir. Since Flame Stop II penetrates and forms a molecular bond with the substrate, the life of the flame retardation shall be indefinite for most interior applications. For exterior applications, it is recommended that the Flame Stop II be reapplied after five years. Flame Stop II will not alter the structural integrity of wood, such as pressure treatment does, and is preferred, because it is user-friendly, functions as a wood preservative, dries clear, and can be easily applied by spraying, immersing, brushing, or rolling. Flame Stop II contains mold and mildew inhibitors which are effective against black mold. Once cured for 48 hours, the treated material may be painted with most latex-based paints.

### LIMITATIONS:

Storage Range: 45 – 110 degrees Fahrenheit (7 – 43 Celsius)  
Shelf Life: One year, if kept within storage range.  
A compatibility test is strongly recommended.  
Moisture content should be 5 – 15% before treatment.  
Do not dilute.

### TECHNICAL SUPPORT

**Total solids: 15%**

**Wt per gallon: 9 Lbs.**

**Average ph: 7.0**

**Color: White - cures Clear**

**Solvents: Water**

**Bacterial: Good  
resistance**

**Fungus: Good  
resistance**

**Volatility: None**

**Toxic: No**

**Biodegradeable: Yes**

**Corrosive: Mildly corrosive  
on unplated steel**

**Linear shrinkage: None**

**Insects, rodents  
and mold: Excellent  
resistance**

### CONTACT US AT:

924 Blue Mound Rd.  
Ft. Worth, TX 76131  
817-306-1222  
FAX 817-306-1733  
info@flamestop.com

### VISIT US AT:

[www.flamestop.com](http://www.flamestop.com)

## **APPLICABLE STANDARDS:**

Flame Stop II has been tested to the following standards: ASTM E-84, NFPA 255, UL 723: U.S. Testing #LA 62466, Omega Point Laboratories #8746-108578 Class A Rating.

## **APPLICATION:**

Ensure that all materials are clean prior to application. Apply Flame Stop II as is by spraying, brushing, rolling, or immersing at the rate of 125 square feet per gallon. If spraying onto a vertical surface where runoff could occur, multiple applications may be necessary. When doing multiple coats, wait until the first coat has penetrated before beginning the next application. One coat will require a 48-hour curing period. For spray application, use a .012 tip size and a low-pressure airless sprayer.

\*\*\* After treatment a 48-hour conditioning period is necessary before testing \*\*\*

## **TESTING:**

A small-scale test can be preformed with the utilization of a sample of the treated material and a small flame (butane lighter or match). Hold a 4" x 12" piece of the treated material vertically and apply the flame to the lower portion for 10 seconds, and then remove the ignition source. The flame must self-extinguish within two (2) seconds. This test is similar to the small-scale NFPA 701 field test.

**FLAMESPREAD 25 AND SMOKE DEVELOPED 25 PER ASTM-E84 February, 2010**



TESTED BY:  
U.S. TESTING COMPANY INC. (SGS NORTH AMERICA)  
OMEGA (INTERTEK) COMMERCIAL TESTING

C-14401

## **NOTES:**

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## **WARRANTY:**

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.