





# Hardware

## The Right Supplies

At Trivantage®, we carry the tools and top-quality finishing supplies required to get a job done. Need something that can stand up to weather? Our corrosion-resistant marine, awning, and shade sail hardware is built to endure.

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# SolaMesh® Shade Sail Hardware

Engineered to work seamlessly with SolaMesh shade sail fabric, SolaMesh hardware is available in a variety of sizes to meet all demands. Made of stainless steel type 316, it is built for lifting and rigging purposes. SolaMesh hardware is backed by a 5-year warranty.

Note: The completed structure should be properly designed by a professional engineer and installed by an experienced contractor in accordance with local building codes. It is the responsibility of the fabricator to determine the right hardware for a specific structure. It is recommended that an anti-seize product like Ultra Tef-Gel Marine Lubricant (Item #214324) be used on turnbuckle threads to reduce binding.

<b>Warranty</b>	5-Year
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Item Number	Description	Height	Inside Diameter	Length	Material	Put Up	Size	Size Opening	Standard Package	Tapped Thread	Thickness	Threaded For Size	Width
207020	Turnbuckle Jaw/Jaw			196 mm (7.72 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)	11 mm (0.43 in.)	80				
207021	Turnbuckle Jaw/Jaw			238 mm (9.37 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)	12 mm (0.47 in.)	50				
207022	Turnbuckle Jaw/Jaw			324 mm (12.76 in.)	Stainless Steel Type 316	1/each	12 mm (0.44 in.)	14 mm (0.55 in.)	30				
207025	Spring Hook		12 mm (0.47 in.)	80 mm (3.15 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)	9 mm (0.35 in.)	250				
207026	Spring Hook		15 mm (0.59 in.)	100 mm (3.94 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)	12 mm (0.47 in.)	120				
207027	Cable Dee Ring	58 mm (2.28 in.)			Stainless Steel Type 316	1/each	6 mm x 50 mm (1/4 in. x 2 in.)		200				52 mm (2.05 in.)
207028	Cable Dee Ring	64 mm (2.52 in.)			Stainless Steel Type 316	1/each	8 mm x 50 mm (5/16 in. x 2 in.)		100			M8	54 mm (2.13 in.)
207029	Cable Dee Ring	70 mm (2.76 in.)			Stainless Steel Type 316	1/each	10 mm x 55 mm (3/8 in. x 2.19 in.)		75			M10	56 mm (2.2 in.)
207030	Dee Ring Thimble	57 mm (2.24 in.)			Stainless Steel Type 316	1/each	6 mm x 50 mm (1/4 in. x 2 in.)		120				64 mm (2.52 in.)
207031	Dee Ring Thimble	62 mm (2.44 in.)			Stainless Steel Type 316	1/each	8 mm x 50 mm (0.31 in. x 2 in.)		100				69 mm (2.72 in.)
207032	Dee Ring Thimble	76 mm (2.99 in.)			Stainless Steel Type 316	1/each	10 mm 65 mm (0.38 in. x 2.56 in.)		50				87 mm (3.43 in.)
207033	Dee Ring	47 mm (1.85 in.)		50 mm (1.97 in.)	Stainless Steel Type 316	1/each	6 mm x 50 mm (0.25 in. x 2 in.)		300				
207034	Dee Ring	47 mm (1.85 in.)		50 mm (1.97 in.)	Stainless Steel Type 316	1/each	8 mm x 50 mm (0.31 in. x 2 in.)		200				



207020



207023



207025



207027



207030



207033



207035

Item Number	Description	Height	Inside Diameter	Length	Material	Put Up	Size	Size Opening	Standard Package	Tapped Thread	Thickness	Threaded For Size	Width
207035	Triangle	50 mm (1.97 in.)		50 mm (1.97 in.)	Stainless Steel Type 316	1/each	6 mm x 50 mm (0.25 in. x 2 in.)		400				
207036	Triangle	50 mm (1.97 in.)		50 mm (1.97 in.)	Stainless Steel Type 316	1/each	8 mm x 50 mm (0.31 in. x 2 in.)		250			M8	
207037	Bow Shackle			32 mm (1.26 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)	16 mm (0.63 in.)	250				
207038	Bow Shackle			40 mm (1.57 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)	20 mm (0.79 in.)	150				
207039	Bow Shackle			48 mm (1.89 in.)	Stainless Steel Type 316	1/each	12 mm (0.44 in.)	24 mm (0.94 in.)	90				
207040	Dee Shackle			32 mm (1.26 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)	16 mm (0.63 in.)	300				
207041	Dee Shackle			40 mm (1.57 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)	20 mm (0.79 in.)	150				
207042	Long Dee Shackle			64 mm (2.52 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)	16 mm (0.63 in.)	180				
207043	Long Dee Shackle			80 mm (3.15 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)	20 mm (0.79 in.)	80				
207044	Twisted Dee Shackle			48 mm (1.89 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)	16 mm (0.63 in.)	200				
207045	Twisted Dee Shackle			60 mm (2.36 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)	20 mm (0.79 in.)	90				
207046	Diamond Pad Eye			90 mm (3.54 in.)	Stainless Steel Type 316	1/each	90 mm x 55 mm (3.54 in. x 2.17 in.)		90				55 mm (2.17 in.)
207047	Diamond Pad Eye			100 mm (3.94 in.)	Stainless Steel Type 316	1/each	100 mm x 62 mm (4 in. x 2.44 in.)		50				62 mm (2.44 in.)
207048	Diagonal Eye Wall Plate			100 mm (3.94 in.)	Stainless Steel Type 316	1/each	100 mm (3.94")		30				100 mm (3.94 in.)
207049	Diagonal Eye Wall Plate			150 mm (5.91 in.)	Stainless Steel Type 316	1/each	150 mm (5.91")		12				150 mm (5.91 in.)
207050	Eye Bolt, Nut, Washer		20 mm (0.79)	100 mm (3.94 in.)	Stainless Steel Type 316	1/each	8 mm x 100 mm (0.31 in. x 4 in.)		240	8 mm (0.31 in.)			
207051	Eye Bolt, Nut, Washer		20 mm (0.79 in.)	150 mm (5.91 in.)	Stainless Steel Type 316	1/each	8 mm x 150 mm (0.31 in. x 6 in.)		200	8 mm (0.31 in.)			

Items continue on next page.



207039



207042



207046



207048



207051



207053



207061

## HARDWARE SHADE SAIL AND AWNING

Item Number	Description	Height	Inside Diameter	Length	Material	Put Up	Size	Size Opening	Standard Package	Tapped Thread	Thickness	Threaded For Size	Width
207052	Eye Bolt, Nut, Washer		23 mm (0.91 in.)	150 mm (5.91 in.)	Stainless Steel Type 316	1/each	10 mm x 150 mm (.38 in. x 6 in.)		100	10 mm (0.39 in.)			
207053	Rope Clamp			33 mm (1.3 in.)	Rope Clamp	1/each	6 mm (0.25 in.)		240				26 mm (1.02 in.)
207056	Thimble		10/16"	26 mm (1.02 in.)	Stainless Steel Type 316	1/each	6 mm (0.25 in.)		500				
207057	Thimble		18 mm (0.71 in.)	33 mm (1.3 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)		350				
207058	Thimble		23 mm (0.91 in.)	48 mm (1.89 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)		300				
207059	Shade Sail Wire Rope				Stainless Steel Type 316	492 ft.	6 mm (0.25 in.)		1				
207062	Eye Bolt		20 mm (0.79 in.)	80 mm (3.15 in.)	Stainless Steel Type 316	1/each	8 mm x 80 mm (0.31 in. x 3.15 in.)		230	8 mm (0.31 in.)			
207063	Eye Bolt		23 mm (0.91 in.)	80 mm (3.15 in.)	Stainless Steel Type 316	1/each	10 mm x 80 mm (0.38 in. x 3.15 in.)		180	10 mm (0.39 in.)			
207064	Eye Bolt		25 mm (0.98 in.)	100 mm (3.94 in.)	Stainless Steel Type 316	1/each	12 mm x 100 mm (0.44in. x 4 in.)		80	12 mm (0.47 in.)			
207066	Snap Hook			53 mm (2.09 in.)	Stainless Steel Type 316	1/each	2 in. x 0.62 in.	16 mm (0.63 in.)	650				
207067	Turnbuckle Eye/Eye			195 mm (7.68 in.)	Stainless Steel Type 316	1/each	8 mm (0.31 in.)	14 mm (0.55 in.)	150				
207068	Turnbuckle Eye/Eye			240 mm (9.45 in.)	Stainless Steel Type 316	1/each	10 mm (0.38 in.)	16 mm (0.63 in.)	80				
207069	Turnbuckle Eye/Eye			310 mm (12.2 in.)	Stainless Steel Type 316	1/each	12 mm (0.44 in.)	18 mm (0.71 in.)	40				
207070	Pad-Eye				Stainless Steel Type 316	1/each		16 mm (0.63 in.)	2000				
207072	External Corner Bracket			76 mm (3 in.)	Stainless Steel Type 316	1/each		13 mm (0.5 in.)			5 mm (0.19 in.)		150 mm (5-29/32 in.)

SolaMesh® is a registered trademark of Glen Raven, Inc.

# Polyfab™ Pro Shade Sail Hardware

This premium line of hardware is ideal for use in tension shade structures such as hip and ridge and tension membrane shade sails. Use in conjunction with HDPE knitted shadecloth or equivalent fabrics. Polyfab Pro hardware is backed by a 5-year warranty.

Note: The finished structure should be properly engineered by a professional engineer and installed by a qualified contractor in accordance with local building codes. It is the responsibility of the fabricator to determine the proper hardware for a particular installation. It is recommended that an anti-seize product such as Ultra Tef-Gel Marine Lubricant (Item #214324) be used on turnbuckle threads to minimize binding.

Please refer to [www.trivantage.com](http://www.trivantage.com) for proper care and cleaning of all Polyfab Pro hardware.

**Warranty** 5-Year



240000



240010



240015



240020



240030



240033



240041



240042



240044



240045

Item Number	Style Number	Description	Height	Length	Material	Put Up	Size	Standard Package	Thickness	Threaded For Size	Width
240116	ZN-ZB14	Deck Post Bracket Set	13.35 in.	13.5 in.	Zinc-Plated Steel	1/each		1	3/16 in.		
240013	SS-SD-08	Polyfab Dee Shackle		32 mm	Stainless Steel Type 316	1/each	8 mm	1		M8	16 mm (opening)
240014	SS-SD-10	Polyfab Dee Shackle		40 mm	Stainless Steel Type 316	1/each	10 mm	1		M10	20 mm (opening)
240015	SS-SLD-08	Polyfab Long Dee Shackle		64 mm	Stainless Steel Type 316	1/each	8 mm	1		M8	16 mm (opening)
240016	SS-SLD-10	Polyfab Long Dee Shackle		80 mm	Stainless Steel Type 316	1/each	10 mm	1		M10	20 mm (opening)
240021	SS-SLT-10	Polyfab Long Twisted Shackle		81 mm	Stainless Steel Type 316	1/each	10 mm	150		M10	20 mm (opening)
240020	SS-SLT-08	Polyfab Long Twisted Shackle		65 mm	Stainless Steel Type 316	1/each	8 mm	280		M8	15.5 mm (opening)
240045	SS-DRG-06	Polyfab Pro Dee Ring			Stainless Steel Type 316	1/each	6 x 50 mm	500			
240046	SS-DRG-08	Polyfab Pro Dee Ring			Stainless Steel Type 316	1/each	8 x 50 mm	300			
240055	SS-DRTH-650	Polyfab Pro Dee Ring Thimble	55 mm		Stainless Steel Type 304	1/each	6 x 50 mm	300			
240056	SS-DRTH-850	Polyfab Pro Dee Ring Thimble	59 mm		Stainless Steel Type 304	1/each	8 x 50 mm	230			
240057	SS-DRTH-1065	Polyfab Pro Dee Ring Thimble	75 mm		Stainless Steel Type 304	1/each	10 x 65 mm	70			
240090	ZN-WPD-100	Polyfab Pro Diagonal Eye Wall Plate		4 in.	Zinc-Plated Steel	1/each	100 mm	1	3/16 in.		4 in.
240091	ZN-WPD-150	Polyfab Pro Diagonal Eye Wall Plate		6 in.	Zinc-Plated Steel	1/each	150 mm	1	3/16 in.		6 in.
240095	SS-PED-90	Polyfab Pro Diamond Pad Eye		90 mm	Stainless Steel Type 304	1/each	80 mm	50			57 mm

Items continue on next page.

**HARDWARE SHADE SAIL AND AWNING**



240048



240050



240055



240059



240067



240080



240081



240083



240090



240011



240083



240106



240090



240040



Item Number	Style Number	Description	Height	Length	Material	Put Up	Size	Standard Package	Thickness	Threaded For Size	Width
240096	SS-PED-100	Polyfab Pro Diamond Pad Eye		100 mm	Stainless Steel Type 304	1/each	100 mm	30			60 mm
240052	SS-DRHD-10	Polyfab Pro Easy-Hold Dee Ring	68.5 mm		Stainless Steel Type 316		10 x 55 mm	1			
240050	SS-DRHD-05	Polyfab Pro Easy-Hold Dee Ring	55.5 mm		Stainless Steel Type 316	1/each	5 x 50 mm	1			
240051	SS-DRHD-08	Polyfab Pro Easy-Hold Dee Ring	62 mm		Stainless Steel Type 316	1/each	8 x 50 mm	300			
240080	ZN-CBEX-100	Polyfab Pro External Corner Bracket			Zinc-Plated Steel	1/each	100 mm	1			
240082	ZN-CBEX-100120	Polyfab Pro External Corner Bracket		4 in.	Zinc-Plated Steel	1/each	100 x 120 mm	10	3/16 in.		5 in.
240113	ZN-CBEX-150	Polyfab Pro External Corner Bracket		6 in.	Zinc-Plated Steel	1/each	150 mm	1	3/16 in.		3 in.
240049	SS-EYBC-10	Polyfab Pro Eye Bolt with Collar	25 mm		Stainless Steel Type 316	1/each	10 mm	1		M10	
240053	SS-EYBC-12	Polyfab Pro Eye Bolt with Collar	30 mm		Stainless Steel Type 316	1/each	12 mm	1		M12	
240047	SS-EYN-10	Polyfab Pro Eye Nut	25 mm	40 mm	Stainless Steel Type 316	1/each	10 mm	1		M10	
240081	ZN-CBIN-100	Polyfab Pro Internal Corner Bracket		4 in.	Zinc-Plated Steel	1/each	100 mm	1	3/16 in.		3 in.
240012	SS-SBF-12	Polyfab Pro Shackle Bow		51 mm	Stainless Steel Type 316	1/each	12 mm	120		M12	
240011	SS-SBF-10	Polyfab Pro Shackle Bow		42.5 mm	Stainless Steel Type 316	1/each	10 mm	200		M10	
240010	SS-SBF-08	Polyfab Pro Shackle Bow		34 mm	Stainless Steel Type 316	1/each	8 mm	450		M8	
240107	SS-HKS-10	Polyfab Pro Spring Hook		100 mm	Stainless Steel Type 316	1/each	10 mm	1			
240106	SS-HKS-08	Polyfab Pro Spring Hook		80 mm	Stainless Steel Type 316	1/each	8 mm	1			
240041	SS-TRI-08	Polyfab Pro Triangle			Stainless Steel Type 316	1/each	8 x 50 mm	350		M8	
240040	SS-TRI-06	Polyfab Pro Triangle			Stainless Steel Type 316	1/each	6 x 50 mm	500		M6	



240094



240095



240106

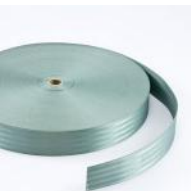


240111

Item Number	Style Number	Description	Height	Length	Material	Put Up	Size	Standard Package	Thickness	Threaded For Size	Width
240005	SS-TBEE-08	Polyfab Pro Turnbuckle Eye/Eye		302 mm (open)	Stainless Steel Type 316	1/each	8 mm	150		M8	
240006	SS-TBEE-10	Polyfab Pro Turnbuckle Eye/Eye		370 mm (open)	Stainless Steel Type 316	1/each	10 mm	100		M10	
240007	SS-TBEE-12	Polyfab Pro Turnbuckle Eye/Eye		492 mm (open)	Stainless Steel Type 316	1/each	12 mm	50		M12	
240002	SS-TBJJ-12	Polyfab Pro Turnbuckle Jaw/Jaw		485 mm (open)	Stainless Steel Type 316	1/each	12 mm	40		M12	
240001	SS-TBJJ-10	Polyfab Pro Turnbuckle Jaw/Jaw		362 mm (open)	Stainless Steel Type 316	1/each	10 mm	80		M10	
240000	SS-TBJJ-08	Polyfab Pro Turnbuckle Jaw/Jaw		290 mm (open)	Stainless Steel Type 316	1/each	8 mm	130		M8	

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## Polyfab™ Shade Sail Edge Webbing



565111

Polyfab Shade Sail Edge Webbing is used for shade structures and shade sails. Matches Polytex®+, Comtex®+ and Architec 400® extra heavy duty knitted shade cloth.

Some items are drop ship only.

Item Number	Average Breaking Strength	Color	Color Number	Put Up	Width
565135	4400 lbf.	Antec Orange	22	109 yd.	2 in.
565129	4400 lbf.	Beige	72	109 yd.	2 in.
565121	4400 lbf.	Black	99	109 yd.	2 in.
565103	4400 lbf.	Blue	50	109 yd.	2 in.
565109	4400 lbf.	Bronze	81	109 yd.	2 in.
565131	4400 lbf.	Cafe Noir	35	109 yd.	2 in.
565113	4400 lbf.	Charcoal	92	109 yd.	2 in.
565123	4400 lbf.	Claret	32	109 yd.	2 in.
565141	4400 lbf.	Fluro Green	67	109 yd.	2 in.
565118	4400 lbf.	Golden Yellow	11	109 yd.	2 in.
565101	4400 lbf.	Midnight Green	62	109 yd.	2 in.
565105	4400 lbf.	Navy Blue	51	109 yd.	2 in.
565115	4400 lbf.	Porcelain	71	109 yd.	2 in.
565139	4400 lbf.	Purple	58	109 yd.	2 in.
565127	4400 lbf.	Red	30	109 yd.	2 in.
565111	4400 lbf.	Sage	19	109 yd.	2 in.
565107	4400 lbf.	Sandstone	73	109 yd.	2 in.
565125	4400 lbf.	Silver Gray	91	109 yd.	2 in.
565119	4400 lbf.	Turquoise	10	109 yd.	2 in.
565133	4400 lbf.	White	01	109 yd.	2 in.
565117	4400 lbf.	Yellow	10	109 yd.	2 in.

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123004

## Awning Hardware – Elbow

Threaded elbow made of plated, malleable iron.

Item Number	Style Number	For	Standard Package	Threaded For Pipe Size
123003	3	3/4 in. OD Tubing	25	1/2 in. ID
123004	4	1 in. OD Tubing	25	3/4 in. ID
123005	5	1-1/4 in. OD Tubing	25	1 in. ID
123008	8	1 in. and 3/4 in. OD Tubing	25	1/2 in. and 3/4 in. ID



123389

## Awning Hardware – Slip-Fit Square Elbow – Malleable Iron

This Slip-Fit square elbow is made from plated, malleable iron and furnished with set screws. Its square design ensures a better fitting cover. Use to join front bars with end rafters.

Slip-Fit fittings provide a time and labor-saving method to install awnings. No threading is needed as they just slide on or over the pipe frame and are tightened with set screws. They allow rapid adjustment when the piping is not cut to precise size.

Suggested uses: joining right angles of any awning frame assembly.

Item Number	Style Number	Description	For	Number Of Set Screws	Standard Package
123386	285	Includes stainless steel screws	7/8 in. OD tubing, 1/2 in. ID pipe	2	1
123387	287	Includes stainless steel screws	1 in. OD tubing, 3/4 in. ID pipe	2	25
123389	289	Includes stainless steel screws	1-1/4 in. OD tubing, 1 in. ID pipe	2	10

## Awning Hardware – Pin Or Nut End

Threaded Pin/Nut End made of plated, malleable iron. Includes a stainless steel nut. Use with side nut hinge or front cotter hinge

Item Number	Style Number	Standard Package	Threaded For Size
124702	2	25	1/2 in. pipe



124002

## Awning Hardware – Eye End – Malleable Iron

Threaded Eye End made from GEOMET® plated, malleable iron. Placed on the ends of arms and rafters for fastening onto hinges or jaws. Use with side nut hinge or front cotter hinge.

Item Number	Style Number	Standard Package	Threaded For Size	Type
124010	10	25	3/4 in. pipe	Large eye
124007	7	25	1/4 in. pipe or 1/2 in. iron	Large eye
124009	9	25	1/2 in. pipe	Large eye
124012	12	25	1 in. pipe	Small eye
124002	2	25	1/4 in. pipe or 1/2 in. iron	Small eye
124003	3	25	3/8 in. pipe or 5/8 in. iron	Small eye
124004	4	25	1/2 in. pipe	Small eye
124005	5	25	3/4 in. pipe	Small eye

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## Awning Hardware – Slip-Fit Eye End – Malleable Iron



124702

These specially designed Slip-Fit eye ends are made from plated, malleable iron. The fittings are properly proportioned for the greatest rigidity. The small eye permits a snug fit between the eye end, rod, and rafter holder. A 2-inch barrel depth assures greater holding power. The eye end is furnished with a stainless steel set screw.

Slip-Fit fittings offer a labor and time-saving way to build awnings. No threading is required as they simply slip on or over the pipe frame and are tightened with a set screw. They allow fast adjustment when the pipe is not cut to exact length.

Suggested uses: awning pipe frame assemblies, supporting pipe posts.

Item Number	Style Number	For	Maximum Bolt Standard	Number Of Set Screws	Standard Package
124188	286	3/4 in. OD tubing, 1/2 in. ID pipe	1/4 in.	1	25
124190	290	1 in. OD tubing, 3/4 in. ID pipe	7/16 in.	1	25
124191	291	1-1/4 in. OD tubing, 1 in. ID pipe	7/16 in.	1	1



124190

## Awning Hardware – Slip-Fit Adjustable Front Bar



130581

These Slip-Fit adjustable front bars include plated-steel clamps, a zinc die-cast collar, and stainless steel hardware. The interlocking three-piece fitting provides a rigid, low-cost assembly. Simply slip over the pipe and adjust to your desired position by tightening the set screw. With both hands free, you can quickly bolt the bottom section to the top section for a sturdy, reinforced assembly.

Slip-Fit hardware offer a time and labor-saving means to install awnings. No threading is needed as they just slide on or over the piping frame. They permit fast modification when the piping is not cut to exact size.

Suggested uses: awning pipe frames.

Item Number	Style Number	For	Number Of Set Screws	Reducing For Pipe Size	Standard Package
130580	280	1 in. OD tubing, 3/4 in. ID pipe	1 set screw, 1 bolt, 1 nut	3/4 in. pipe	25
130581	281	1-1/4 in. OD tubing, 1 in. ID pipe	1 set screw, 1 bolt, 1 nut	1 in. pipe	25
130582	282	1-1/4 in. OD tubing, 1 in. ID pipe / 1 in. OD tubing, 3/4 in. ID pipe	1 set screw, 1 bolt, 1 nut	3/4 in. pipe	25



112501



112505

## Awning Hardware – Head Rod Clamp – Zinc Die Cast

A fixture designed for attaching the head rod of an awning to various building surfaces, as well as providing hooks for hanging awning pulleys. GEOMET® plated, zinc die-cast with stainless steel fasteners.



112504



112509

Item Number	Style Number	For	Size Head Rod	Standard Package
112504	4	Wood	1/2 in. diameter iron	25
112509	6	Wood	1/2 in. diameter iron	25
112501	1	Wood	3/8 in. diameter iron	25
112505	5	Wood	3/8 in. diameter iron	25



112630

## Awning Hardware – Head Rod Clamp – Narrow Base Type – Zinc Die Cast

A fixture designed for attaching the head rod of an awning to various building surfaces, as well as providing hooks for hanging awning pulleys. One countersunk hole for wood screw provides quick and solid installation. GEOMET® plated, zinc die-cast with stainless steel machine bolt and wing nut.

Item Number	Style Number	Size Head Rod	Standard Package
112630	30Z	1/2 in. diameter iron	25

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112510

## Awning Hardware – Head Rod Clamp – Roller Curtain Type – Malleable Iron

A fixture designed for attaching the head rod of an awning to various building surfaces, as well as providing hooks for hanging awning pulleys. Fastens on inside of porch so that pulleys and pull ropes are on inside of curtain. Can be attached to either face board or ceiling. Plated, malleable iron with stainless steel fasteners.

Item Number	Style Number	For	Size Head Rod	Standard Package
112510	10	Brick	3/8 in. or 1/2 in. diameter iron	25
112521	21	Wood	3/8 in. or 1/2 in. diameter iron	25



112521



140104

## Awning Hardware – Rod And Rafter Holder No. 4

Rod and rafter holders are designed for attaching heads and rafters of patio or stationary awnings, eliminating the need for separate clamps for head rod or hinges for the rafters. Made of GEOMET® plated, malleable iron. Furnished with stainless steel machine bolt and wing nut to hold the head rod, machine screw and square nut, for fastening the rafter.

A combination fixture for application on brick, wood or concrete. It has two countersunk holes for wood screws. There is also a hole for a 5/16 inch or 3/8 inch lag screw. The No. 4 Rod and Rafter Holder is especially suitable for application and installation on narrow trim boards.

Item Number	Style Number	Size Head Rod	Standard Package
140104	4	1/2 in. diameter iron	25

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113234

## Awning Hardware – Slip-Fit Tie Down Clamp – Steel

This Slip-Fit tie down clamp is made from plated, stamped steel with a stainless-steel bolt and hex nut. Tie down clamps are designed to eliminate pocketing of rainwater on stationary or terrace awnings. Their use permits fixed awning covers to be drawn taut. Assembly can be made quickly on new or old awning frames. Also available in aluminum.

Slip-Fit hardware supply a labor and time-saving means to build awnings. No threading is needed as they just slide on or over the piping frame. They allow rapid modification when the piping is not cut to precise size.

Suggested uses: awning pipe frames for fixed awnings.

Item Number	Style Number	For	Front Bar Size	Standard Package
113233	33	1 in. OD Tubing, 3/4 in. ID Pipe	3/4 in. pipe	25
113234	34	1-1/4 in. OD Tubing, 1 in. ID Pipe	1 in. pipe	25



162703

## Awning Hardware – Slip-Fit Adjustable Post Socket – For Brick – Malleable Iron

This Slip-Fit adjustable post socket is furnished with two lag screw holes for attaching to brick. It is made from plated, malleable iron and comes with a stainless steel set screw. Also available in aluminum.

Slip-Fit fittings provide a labor and time-saving means to install awnings. No threading is required as they just slide on or over the pipe structure. They allow fast adjustment when the piping is not cut to exact length.

Suggested uses: awning pipe frames.

Item Number	Style Number	For	Number Of Set Screws	Standard Package
163703	3	1 in. OD tubing, 3/4 in. ID pipe	1	25
163704	4	1-1/4 in. OD tubing, 1 in. ID pipe	1	1

Trivantage® is a registered trademark of Glen Raven, Inc.



163702

## Awning Hardware – Slip-Fit Adjustable Post Socket – For Wood – Malleable Iron

This Slip-Fit adjustable post socket is furnished with four wood screw holes for attaching to wood. It is made from plated, malleable iron and comes with a stainless steel set screw.

Slip-Fit hardware supply a labor and time-saving way to build awnings. No threading is needed as they merely slip on or over the piping structure and are tightened with a set screw. They permit quick adjustment when the piping is not cut to specific length.

Suggested uses: awning pipe frames.

Item Number	Style Number	For	Number Of Set Screws	Standard Package
163702	2	1-1/4 in. OD tubing, 1 in. ID pipe	1	25

Trivantage® is a registered trademark of Glen Raven, Inc.



174377

## Awning Hardware – Slip-Fit Tee

This Slip-Fit tee is made from plated, malleable iron. A special cast lip on the inside of the tee prevents the inserted pipe from interfering with the pipe crossing in the other direction. It is furnished with set screws.

Slip-Fit hardware provide a labor and time-saving way to install awnings. No threading is required as they simply slide on or over the pipe structure and are tightened with set screws. They allow quick adjustment when the pipe is not cut to exact length.

Suggested uses: joining upright posts to front bars, joining rafters to front bars, joining special types of frames (such as carports, carnival booths, etc.).

Item Number	Style Number	Description	Extension	For	Front Bar Size	Number Of Set Screws	Standard Package
174377	277	Includes stainless steel screws	3/4 in. pipe	1 in. OD tubing, 3/4 in. ID pipe	3/4 in. pipe	2	25
174379	279	Includes stainless steel screws	1 in. pipe	1-1/4 in. OD tubing, 1 in. ID pipe		2	1
174380	279	Includes stainless steel screws	1 in. pipe	1-1/4 in. OD tubing, 1 in. ID pipe	1 in. pipe	2	25



173604

## Slip Tee

Plated, malleable Iron. The run is not threaded and can be slipped over the front bar. The extension outlet is tapped.

Item Number	Style Number	Description	Extension Bar Threaded	Front (Slip Fit)	Standard Package
173604	4	With stainless steel set screws	3/4 in. pipe	3/4 in. pipe	25



138102

## Awning Hardware – Spear Head

Made of ductile iron and available in plain or plated finish.

Item Number	Style Number	Description	Size	Standard Package	Threaded For Size
138002	2	Plain	9-1/2 in.	25	1/2 in. pipe
138102	2	Plated	9-1/2 in.	25	1/2 in. pipe



112833

## Awning Hardware – Pipe Clamp – Wrought Steel

Designed for a carriage bolt to prevent bolt head from turning when nut is tightened. Plated. Includes stainless steel bolt unless stated otherwise.

Item Number	Style Number	Description	Bolt Size	For	Standard Package
112833	43	Bolt excluded	5/16 in.	1 in. OD Tubing, 3/4 in. ID Pipe	25
112834	44	Bolt excluded	5/16 in.	1-1/4 in. OD Tubing, 1 in. ID Pipe	25
112842	42	Bolt included	5/16 in.	3/4 in. OD Tubing, 1/2 in. ID Pipe	25
112843	43	Bolt included	5/16 in.	1 in. OD Tubing, 3/4 in. ID Pipe	25
112844	44	Bolt included	5/16 in.	1-1/4 in. OD Tubing, 1 in. ID Pipe	25
112849	44	Bolt included	3/8 in.	1-1/4 in. OD Tubing, 1 in. ID Pipe	25



138615

## Awning Hardware – Bracket Hinge

Plated, die-cast zinc. Furnished with stainless steel machine screw and hex nut. Also available in aluminum.

Item Number	Style Number	Projection	Size	Standard Package
138615	O-B	1 in.	1/4"-20 x 1-1/8" slot Phillips-head drive with 1/4"-20 nut	25



138737

## Awning Hardware – Camelback Hinge – Zinc Die-Cast

Plated, zinc die-cast. Fastens the projection arms of awning frames to a building. Furnished with stainless steel machine screws.

No. 11 is identical in design to the No. 2, but has a round head shoulder screw with "pilot" for holding No. 1 Sheet Brass Grommets.



238020

Item Number	Style Number	Projection	Standard Package
138737	11	11/16 in.	25
238020	2	11/16 in.	25



263913

## Awning Hardware – Round Head Machine Screw

Item Number	Description	For	Material	Size	Standard Package
263913	Round Head Shoulder Screw	No. 11 and C.B. Hinge	Plated Steel	12-24 x 7/8 in.	100
263923	Round Slotted Head Screw	No. 2 C.B. Hinge, No 34. S.S. Hinge	Stainless Steel	12-24 x 3/4 in.	100



263923



139180

## Awning Hardware – Extra Projection Hinge

Made of plated, malleable iron and furnished with a stainless steel machine screw.

Item Number	Style Number	Projection	Standard Package
139180	15	1-1/2 in.	25



139064

## Awning Hardware – Hinge – Stamped Steel

Plated. Furnished with machine screw.

Item Number	Style Number	Gauge	Standard Package
139064	34	14	25



124504

## Awning Hardware – Jaw End With Lag Screw

Used to attach awning frame to a brick surface. Furnished with machine screw and hex nut. Projection is from shoulder of jaw to center of bolt hole in jaw.

Item Number	Style Number	Jaw Opening	Lag Screw Size	Material	Projection	Standard Package	Use Expansion Shield
124504	4	7/16 in.	3/8 in. x 2-1/2 in.	Aluminum Extrusion	1-1/2 in.	25	3/8 in. x 2 in.



147002

## Worm Gear Attachments – Universal Or Knuckle Joint

Used for connecting worm gear drive shaft or for splicing two drive shafts. Made of GEOMET® plated, malleable iron sockets with steel, square knuckles.

Item Number	Style Number	For	Standard Package
147002	2	3/4 in. x 3/4 in. iron	25

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126001

## Worm Gear Attachments – Winding Shaft Eye

Reinforced, cadmium plated, malleable iron eye, easily attaches to winding shaft with M6 (metric) bolt.

Item Number	Style Number	For	Standard Package
126001	1	1/2 in. iron	25
126003	3	3/8 in. pipe	25



158342

## Pulley – Stamped Steel – Swivel Eye

ABS Plastic Single Sheave. Full-bearing, with heavy wire, open end swivel eyes that function smoothly. Sheaves prevent rope from being cut or frayed. Plated.

Item Number	Style Number	Rope Diameter	Sheave Diameter	Standard Package	Style Sheave
158340	50	1/8 in.	1/2 in.	25	Single
158341	100	3/16 in.	5/8 in.	25	Single
158342	300	1/4 in.	1 in.	25	Single



256102

## Pulley – Swivel Eye

Made with high grade cast iron swivel eyes and bodies, steel rivets and steel sheaves. Nickel-plated and lacquered for extra rust protection.

Item Number	Style Number	Rope Diameter	Sheave Diameter	Standard Package	Style Sheave
256103	1	5/32 in.	3/4 in.	25	Single
256104	2	5/32 in.	3/4 in.	25	Double
256105	3	1/4 in.	1 in.	25	Single
256106	3/0	1/8 in.	1/2 in.	25	Single
256107	4/0	1/8 in.	1/2 in.	25	Double
256101	5	3/16 in.	1-1/4 in.	25	Single
256102	6	3/8 in.	1-1/2 in.	25	Double



256103



206861

## Track – Steel Curtain Track System – 16 Gauge – Ceiling Support Brackets

Track can be attached to the ceiling support hardware either before or after it is secured to the ceiling. There are no screws or nuts to hold the track in place protruding above the mounting plates. This eliminates the need for spacers or clearance holes in the ceiling. Ceiling support mounting plates (except the 16TBC, item# 206861) have bosses to lock the track in the ceiling support mounting hardware.

Item Number	Style Number	Description	Gauge	Standard Package
206861	16TBC	Ceiling Bracket	16	10
206865	16TSC	Ceiling Bracket	16	10



206856

## Track – Steel Curtain Track System – 16 Gauge – End Stops

End stops are used to prevent trolleys from rolling out of the ends of the track system.

Item Number	Style Number	Gauge	Standard Package
206856	ES	16	50

## Track – Steel Curtain Track System – 16 Gauge – Industrial Curtain Trolley



206834

This 16-gauge galvanized steel system includes a range of products that suspend and anchor the curtain system. A variety of trolleys enable the curtains to roll smoothly.

The track can be attached to the ceiling support hardware either before or after it is secured to the ceiling. No screws or nuts are needed to hold the track in place above the mounting plates. This eliminates the need for spacers or clearance holes in the ceiling. Ceiling support mounting plates (except item# 206861) have bosses to lock the track into the hardware.

Create partitions and privacy with Trivantage® curtain trolley systems.



206868



206844

Item Number	Style Number	Description	Bolt Size	Diameter Hole	Standard Package
206834	B3491-10	Overlapping Trolley with Steel Wheels and Pull Rope – 10 ft.			1
206868	16NR1B	Trolley with Bumper, 2 Nylon Wheels, 1" Hook			1
206867	16STS-4	Trolley with Bumper, 4 Steel Wheels, 1 in. Bolt 3/8-16 Thread	1 in. 3/8-16 Thread		10
206878	16STS-4	Trolley with Bumper, 4 Steel Wheels, 4 in. Bolt 3/8-16 Thread	4 in. 3/8-16 Thread		10
206839	B3427-10	Trolley with Pull Rope – 10 ft.			1
206866	16NR1	Trolley, 2 Nylon Wheels, 1" Hook			5
206835	16NR-1/2	Trolley, 2 Nylon Wheels, 1/2" Hook			1
206844	16SR1	Trolley, 2 Steel Wheels, 1" Hook			1
206877	16SR	Trolley, 2 Steel Wheels, 1-1/2" Height Plate		0.38	1
206845	16OT	Trolley, 4 Steel Overlapping Wheels, 2 1" Hooks			1
206870	16ST1	Trolley, 4 Steel Wheels, 1" Hook			1
206881	16ST	Trolley, 4 Steel Wheels, 2-3/4" Wide Plate, 1-1/2" Height Plate		0.38	1



206867



206839



206866

## Track – Steel Curtain Track System – 16 Gauge – Roller Track

The roller track is roll formed from 16 gauge hot dipped galvanized steel. The trolley wheels roll on the track floor between the outside track wall and the inside safety flange. The ends of the track are punched so that the track splices can lock two adjoining track ends together.



206852

Item Number	Style Number	Gauge	Length	Material	Standard Package
206851	16RT-120	16	10 ft.	Galvanized Steel	250
206852	16RT-240	16	20 ft.	Galvanized Steel	200

## Track – Steel Curtain Track System – 16 Gauge – Curved Track

The standard curved track has end connectors for securing to adjacent sections of the roller track. The standard curve has a two-foot 90-degree radius.



206854

Item Number	Style Number	Description	Gauge	Material	Standard Package
206854	16CT	Curved Track – 90 degree 2 ft. radius	16	Galvanized Steel	25



## Track – Steel Curtain Track System – 16 Gauge – Track Splice

The track splice is used to secure two straight sections of track together.



207881



206863

Item Number	Style Number	Description	Gauge	Material	Standard Package
207881	16TSEC	Edge Clamp	16	Galvanized Steel	1
206863	16TSWMD	Splice Wall Mount Down – 4 in.	16	Galvanized Steel	10
206850	16TSWUSS	Splice Wall Mount Up – 4 in.	16	Stainless Steel Type 304	10
206864	16TSWU	Splice Wall Mount Up – 4 in.	16	Galvanized Steel	10
206840	16TSTR	Splice with Angle Bracket	16	Galvanized Steel	1
206855	16TS	Splice – 4 in. with 2 Set Screws	16	Galvanized Steel	10

## Track – Steel Curtain Track System – 16 Gauge – Wall Mount And End Mount Brackets

Wall mount and end mount brackets are used when the track system is running adjacent to a wall.



206859



206841



206833



206862

Item Number	Style Number	Description	Gauge	Standard Package
206859	16EMD	End Mount Down	16	10
206860	16EMU	End Mount Up	16	10
206833	16TBATR	Right Angle Threaded Rod Bracket	16	1
206841	16TBTR	Threaded Rod Bracket	16	1
206862	16TBV	Vertical Bracket	16	10
206857	16TBWMD	Wall Mount Down	16	10
206858	16TBWU	Wall Mount Up	16	10

## Porcelain Rings

Porcelain Rings are manufactured with a strong and smooth finish for longer rope life.



260981

Item Number	Style Number	Approximate Inside Diameter	Approximate Outside Diameter	Color	Size	Standard Package
260981	1	3/4 in.	1-5/8 in.	Gray	Small	25
260982	2	1 in.	2 in.	Gray	Medium	25

## Ring Clips



117201

Item Number	Style Number	Finish	Standard Package	Thickness	Type	Width
117203	1	Plated Steel	100	0.049 in.	Heavy	15/64 in.
117201	2	Plated Steel	25	0.035 in.	Standard	5/32 in.
117205	3	Stainless Steel	25	0.035 in.	Standard	5/32 in.



214201

## Cleat – Awning

These rope cleats offer strong and durable design for outdoor use.

Item Number	Style Number	For	Length	Material	Number of Holes	Standard Package
214201	1	No. 8 wood screw	4-1/2 in.	Zinc Die-Cast	2	25
266676	2	No. 10 wood screw	6 in.	Zinc Die-Cast	2	100

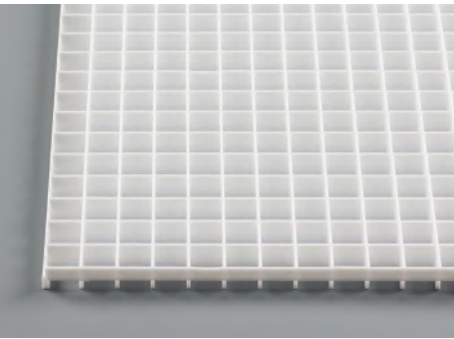


249614

## Curtain Loop – Shower/Bath

Nickel plated steel.

Item Number	Style Number	Size	Standard Package
249614	30570	1 in.	25



Eggcrate louvers have a perimeter which allows continuous appearance mounting by overlapping factory edges.

## Fluorescent Eggcrate Louvers

Eggcrate louvers have a perimeter which allows continuous appearance mounting by overlapping factory edges. UV resistant.

Sold by full case only. Cannot ship UPS.

Item Number	Style Number	Cell Size	Color	Material	Put Up	Standard Package
249700	10	1/2 in. x 1/2 in. x 1/2 in.	White	Acrylic	10/case	1
249705	14	1/2 in. x 1/2 in. x 3/8 in.	White	Acrylic	15/case	1
249720	24	1/2 in. x 1/2 in. x 3/8 in.	White	Styrene	15/case	1



107602

## Bracket – Z

Awning frames can be easily mounted to the wall using our wide array of Z-Brackets. Z-Brackets are made from 1/8" standard or 3/16" heavy duty hot rolled steel. All Z-Brackets are zinc plated and can be powder coated or painted. Each comes with a 3/8" lag hole and a variety of Tek® screw holes. The 1/8" standard thickness Z-Brackets are manufactured with a gusset to provide additional strength.



107610



107604

Item Number	Finish	Length	Round Tube Size	Square Tube Size	Standard Package	Thickness	Width
107613	Zinc Plated	3 in.	2 in.	2 in.	100	1/8 in.	1.5 in.
107602	Zinc Plated	4 in.	1 in.	1 in.	50	3/16 in.	1 in.
107610	Zinc Plated	1 in.	1 in.	1 in.	50	3/16 in.	1 in.
107614	Zinc Plated	3 in.	1-1/4 in.	1-1/4 in.	100	1/8 in.	1.5 in.
107604	Zinc Plated	1.5 in.	1 in.	1 in.	100	1/8 in.	2 in.
107611	Zinc Plated	4.5 in.	1 in.	1 in.	100	1/8 in.	1-1/2 in.
107612	Zinc Plated	3 in.	1.5 in.	1.5 in.	100	1/8 in.	1.5 in.

Teks® is a registered trademark of Illinois Tool Works, Inc.

## Bracket – L



Made from 3/16 inch hot rolled steel. Two holes spaced equally for lagging into mortar are provided to secure bracket to wall. There is also a 3/16 inch hole to accommodate a Teks® screw for fastening the frame. Will accommodate a 3/8 inch lag screw.

107632

Item Number	Finish	Square Tube Size	Standard Package
107632	Zinc Plated	1 in. or 3/4 in.	100

Teks® is a registered trademark of Illinois Tool Works, Inc.

## Head Rod – Electro-Galvanized

In the bending process of making awning frames, this awning iron will not break when bent to right angles. The zinc plating will not chip or flake off during bending. Drawn to full sizes, the iron threads easily and exactly for perfect fitting with pipe-threaded frame fixtures. Also used for lacing and tie down bars, and in conjunction with head rod molding.



244518

Item Number	Diameter	Length	Standard Package	Weight Per Bundle	Weight Per Foot
244516	3/8 in.	20 ft.	17	128 lbs.	0.38 lbs.
244518	1/2 in.	20 ft.	12	160 lbs.	0.67 lbs.
244520	5/8 in.	20 ft.	5	105 lbs.	1.04 lbs.

## Head Rod – Fiberglass

Item Number	Color	Number of Pieces Per Bundle	Size	Standard Package
244616	White	5	3/8 in. x 20 ft.	100 ft. bundle
244625	White	15	1/2 in. x 20 ft.	300 ft. bundle

## Molding – Aluminum Awning

A fast and easy way to install covers. Mill finish, all-aluminum molding that remains in place all year. 6063-T6 aluminum. Cover slides into place easily. 1/4 inch rope is sewn into hem at top of cover. Then, the rope-filled hem slips into the channel of the molding. Allows for easy installation and removal. PE Tubing, Vinyl Welt, or 8.5 m Keder Welt can also be used.

Product is also commonly known as “trailer” molding.

No. 555 Moldings are lighter in weight than No. 777, and are flexible enough to form and bend to varying shapes. Recessed mounting face conforms readily to uneven surfaces.

Item Number	Style Number	Degree of Channel	Flange Size	Height	Length	Overall Height	Rope Size	Standard Package	Thickness	Weight Per Carton	Weight Per Foot	Width
251063	555	180°	0.600 in.		18 ft.	1-1/8 in.	1/4 in. in hem	12	3/64 in.	27 lbs.	0.123 lbs.	
251072	555	180°	0.600 in.	1/2 in.	7.5 ft.	1-1/8 in.	1/4 in.	9	3/64 in.	9 lbs.	0.123 lbs.	1-1/2 in.
251074	777	45°	0.500 in.		7.5 ft.	1-1/4 in.	1/4 in. in hem	9	3/64 in.	12 lbs.	0.160 lbs.	
251073	555	90°	0.600 in.	1/2 in.	7.5 ft.	1-1/8 in.	1/4 in.	9	3/64 in.	9 lbs.	0.124 lbs.	1-1/2 in.
251068	555	90°	0.64 in.		20 ft.	1-1/8 in.	1/4 in. in hem	42	3/64 in.	78 lbs.	0.112 lbs.	



555 180° open molding



555 90° open molding



777 molding

## Welting – Vinyl



578004

Use in place of rope headers on awnings that attach to motor homes, travel trailers, campers and other recreational vehicles. Can be used in conjunction with aluminum awning molding or with the extruded channel already provided by many of the RV manufacturers.

Item Number	Style Number	Color	Put Up	Size
578003	A02-002	White	300 ft.	31/32 in. with 5/16 in. bead
578004	A02-004	Black	300 ft.	31/32 in. with 5/16 in. bead
578098	6022	Black	100 ft.	31/32 in. with 5/16 in. bead

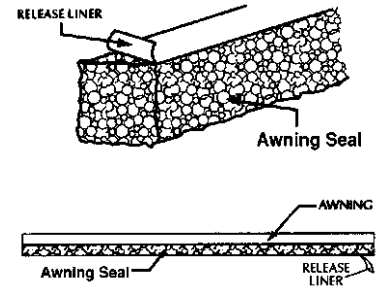


265757

## Emseal UST Awning/Sign Sealant Tape

Why spend time caulking behind awning frames and suffer the frustration of messy jobs, dripped caulk and caulking in bad weather, when all you have to do is apply Awning Foam Sealant to the frame before it's hoisted on the wall?

Available in dimensions to fit most building surfaces, this self-expanding polyester polyurethane foam is filled with water-based stabilized acrylics and will not dry out, shrink or deteriorate when compressed and properly installed. Just peel off the release liner and apply the adhesive side to the back of the awning. This is a continuous seal that is easy to install at ground level, thus providing a safer and more efficient installation atmosphere.



Item Number	Building Surface	Size	Standard Package
265757	Commercial Grade Corrugated Metal	5/16 in. x 3/4 in. x 13.12 ft.	1
265755	Stucco, Block, Brick	5/32 in. x 5/8 in. x 26.24 ft.	1



578054

## Xtreme Seal® Awning Seal

Awning installations are a breeze with Xtreme Seal Awning Seal. Designed for the awning industry as a gasket material between the frame and the mounting surface, Xtreme Seal Awning Seal conforms to the contour of the mounting surface, eliminating the need for silicone and providing a clean finished product. Made of EPDM synthetic rubber, Xtreme Seal Awning Seal also features an adhesive back, saving time and making mounting easy. Sold in full rolls only.

Item Number	Style Number	Color	Put Up
578054	POD-AW	Black	250 ft.

Xtreme Seal® is a registered trademark of Xtreme Seal LLC.



578095

## Tubing "PE" – Low-Density Polyethylene

Polyethylene tubing for use in the head of awnings, and for marine and tonneau covers when using aluminum awning rail. Will not rot, absorb water, shrink, or unravel.

Item Number	Style Number	Put Up	Size
578095	PEH8321000-6-SP	1000 ft.	1/4 in. OD x 1/8 in. ID

## Molding – Head Rod Molding No. 35/37



117139



124538



124540

Nos. 35 and 37 Head Rod Moldings are designed for use with a 1/2 inch diameter conventional head rod to eliminate the awkward job of threading a rope-filled hem through a slot in the molding. The head rod is merely placed in position and finger clips are tightened to hold the head of the awning under the rainproof lip of the molding. The finger clips ride in a track in the molding and can be adjusted to move laterally right or left.

The advantage of this system is that rafters can be placed precisely, even if the surface is uneven or the mounting supports are not located where the rafters should be, because once the molding is mounted, the rafters can be slid to their proper location.

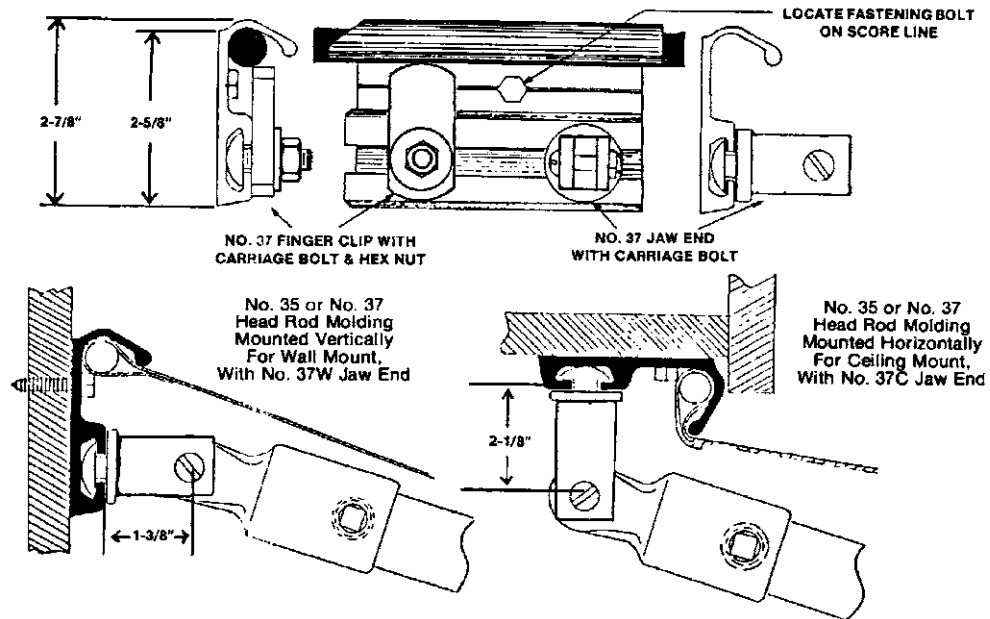
Recommended rafter spacing is 1 1/2 feet in from each side, and then 3 feet to 4 feet centers depending on projection (the longer the rafters, the less the spacing). Awning rafters are attached to special jaw ends that are mounted in a track in the lower side of the molding. The jaw ends can be moved laterally to adjust the rafter width. This is done by turning or tightening the jaw end, which is fitted with a carriage bolt to ride in the same track as the finger clip.

The molding itself is designed so that a bead of caulking compound can be applied to the top length of the molding to prevent water from leaking behind the molding and down the wall.

The No. 35 Molding has the same basic design as the No. 37, but is 25% lighter in weight, with approximately 90% of the No. 37's strength. The No. 37 Finger Clip, No. 37W Jaw End and 1/2 inch Head Rod Clamp can be used with the No. 35 Molding without alteration.

Item Number	Style Number	Description	Length	Standard Package
117139	37	Finger clip assembly. Stainless steel carriage bolt, machine screw, hex nut and washers.		25
124538	37C	Jaw end with stainless steel carriage bolt, machine screw, hex nut and washers.		25
124540	37W	Jaw end with stainless steel carriage bolt, machine screw, hex nut and washers.		25
251043	35	Molding	20 ft.	8
251040	37	Molding	20 ft.	8

Trivantage® is a registered trademark of Glen Raven, Inc.



For Face or Under Eave Mounting



## Tubing – Aluminum Square

Square and rectangular 6063-T6 extruded mill finish aluminum tubing for awning framing and sign boxes. Both forms are lightweight, and corrosion resistant, offering the best combination of strength, bending and welding characteristics.

275922

Item Number	Length	Size	Standard Package
275922	24 ft.	1 in. x 1 in. x 0.060	288 ft.

### Ceiling Panel Support Members



SMP-2B



SMP-2C



SMP-2BS



SMP-3CP

### Channeled Stapling Members



SMP-1B



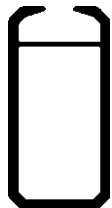
SMP-1C



SMP-1CD



SMP-22B

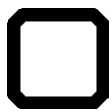


SMP-8C

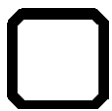


SMP-8B

### Support Members



SMP-4B



SMP-4C



SMP-6



SMP-7

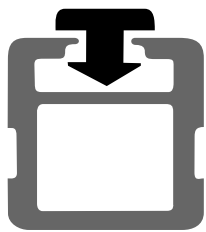
200133

## Steel Stitch™ Aluminum Extrusion

The Steel Stitch System offers flexibility in design and fabrication of interior and exterior awnings, canopies and back-lit signs. The aluminum alloy 6063-T5 mill finish frame system utilizes the “staple-in” method of attaching fabric, which is taken directly from the roll and stapled into a channel in the frame. A PVC finishing trim is then driven into the channel to cover the staples. With the use of divider strips to join sections and the exclusive, patented FlashStrip®, which forms a watertight seal against building surfaces, the result is an attractive, seamless and wrinkle-free awning, canopy or sign.

Item Number	Style Number	Description	Feet Per Bundle	Length	Size	Standard Package
250084	SMP-6	Aluminum Bar	200 ft.	20 ft.	1 in. x 3/16 in.	200
250086	SMP-7	Aluminum Rod	200 ft.	20 ft.	1/2 in. OD	200
250055	SMP-1CD	Tube	250 ft.	25 ft.	1 in. x 1 in. x 0.090 in.	250
250076	SMP-4C	Tube	200 ft.	20 ft.	1 in. x 1 in. x 1/10 in.	200
250078	SMP-4C	Tube	250 ft.	25 ft.	1 in. x 1 in. x 1/10 in.	250
250054	SMP-1C	Tube	250 ft.	25 ft.	1 in. x 1 in. x 1/10 in.	250
250074	SMP-4B	Tube	200 ft.	20 ft.	1 in. x 1 in. x 1/8 in.	200
250052	SMP-1B	Tube	250 ft.	25 ft.	1 in. x 1 in. x 1/8 in.	250
250064	SMP-2C	Tube	250 ft.	25 ft.	1 in. x 1-3/4 in. x 1/10 in.	250
250058	SMP-2B	Tube	250 ft.	25 ft.	1 in. x 1-3/4 in. x 1/8 in.	250
250062	SMP-2BS	Tube	250 ft.	25 ft.	1 in. x 1-3/4 in. x 1/8 in.	250
250091	SMP-8C	Tube	250 ft.	25 ft.	1 in. x 2 in. x 1/10 in.	250
250090	SMP-8B	Tube	250 ft.	25 ft.	1 in. x 2 in. x 1/8 in.	250
250068	SMP-3CP	Tube	200 ft.	20 ft.	1 in. x 2-1/2 in. x 1/10 in.	200
250097	SMP-15B	Tube	150 ft.	25 ft.	1-1/2 in. x 1-1/2 in. x 1/8 in.	100
250099	SMP-22B	Tube	150 ft.	25 ft.	2 in. x 2 in. x 1/8 in.	150

Steel Stitch™ is a trademark of Steel Stitch Corporation. FlashStrip® is a registered trademark of Steel Stitch Corporation.



249917

## Steel Stitch™ ZipStrip®

Designed to cover the staples once the fabric has been stapled into position. Product is driven into the open channel using an air hammer.

Item Number	Color	Color Number	Standard Package
249916	Aquamarine	16	400 ft.
249905	Beige	05	400 ft.
250305	Beige	05	150 ft.
250302	Black	02	150 ft.
249902	Black	02	400 ft.
250333	Bordeaux	33	150 ft.
249934	Bordeaux	33	400 ft.
249926	Bright Blue	26	400 ft.
249930	Bright Orange	30	400 ft.
250324	Bright Red	24	150 ft.
249924	Bright Red	24	400 ft.
250306	Brown	06	150 ft.
249906	Brown	06	400 ft.
249911	Burgundy	11	400 ft.
250311	Burgundy	11	150 ft.
250304	Cream	04	150 ft.
249904	Cream	04	400 ft.
250331	Crystal Clear	31	150 ft.
249931	Crystal Clear	31	400 ft.
249913	Dark Blue	13	400 ft.
250313	Dark Blue	13	150 ft.
250318	Dark Green	18	150 ft.
249918	Dark Green	18	400 ft.
250323	Deep Red	23	150 ft.
249923	Deep Red	23	400 ft.
249929	Golden Yellow	29	400 ft.
250329	Golden Yellow	29	150 ft.
249917	Grass Green	17	400 ft.
250303	Grey	03	150 ft.
249903	Grey	03	400 ft.
250322	Linen	22	150 ft.
249922	Linen	22	400 ft.
249914	Medium Blue	14	400 ft.
250310	Plum	10	150 ft.
249920	Pumpkin	20	400 ft.

Item Number	Color	Color Number	Standard Package
249912	Rouge Red	12	400 ft.
250312	Rouge Red	12	150 ft.
250325	Royal Blue	25	150 ft.
249925	Royal Blue	25	400 ft.
249927	Teal	27	400 ft.
249921	Terra Cotta	21	400 ft.
250321	Terra Cotta	21	150 ft.
249928	Turquoise	28	400 ft.
250332	Violet	32	150 ft.
249933	Violet	32	400 ft.
249901	White	01	400 ft.
250301	White	01	150 ft.
250319	Yellow	19	150 ft.
249919	Yellow	19	400 ft.

Steel Stitch™ is a trademark of Steel Stitch Corporation. ZipStrip® is a registered trademark of Steel Stitch Corporation.



249873

## Steel Stitch™ ZipStrip® – Sunbrella® Fabric

This fabric covered PVC staple channel trim creates a traditional finish on woven canvas awnings and canopies. Fabric covered ZipStrip is made with Sunbrella Acrylic fabrics that completely conceal the PVC material. A durable lockstitch double seam holds the fabric securely in place for years of attractive performance. Custom colors and fabrics are available.

Item Number	Color	Color Number	Standard Package
249879	Beige	6020	160 ft.
249878	Black	6008	160 ft.
249891	Burgundy	6031	160 ft.
249890	Cadet Grey	6030	160 ft.
249896	Captain Navy	6046	160 ft.
249894	Forest Green	6037	160 ft.
249873	Jockey Red	6003	160 ft.
249893	Linen	6033	160 ft.
249876	Navy	6026	160 ft.
249897	Oyster	6042	160 ft.
249871	Pacific Blue	6001	160 ft.
249881	Terracotta	6022	160 ft.
249882	Toast	6028	160 ft.
249880	True Brown	6021	160 ft.

Steel Stitch™ is a trademark of Steel Stitch Corporation. ZipStrip® is a registered trademark of Steel Stitch Corporation. Sunbrella® is a registered trademark of Glen Raven, Inc.



249836

## Steel Stitch™ ZipStrip® – Firesist® Fabric

This fabric covered PVC staple channel trim creates a traditional finish on woven canvas awnings and canopies. Fabric covered ZipStrip is made with Firesist fabrics that completely conceal the PVC material. A durable lockstitch double seam holds the fabric securely in place for years of attractive performance. Custom colors and fabrics are available.

Item Number	Color	Color Number	Standard Package
249837	Admiral Navy	82010	160 ft.
249836	Black	82008	160 ft.
249844	Burgundy	82016	160 ft.
249845	Crimson	82017	160 ft.
249833	Forest Green	82003	160 ft.

ZipStrip® is a registered trademark of Steel Stitch Corp. Firesist® is a registered trademark of Glen Raven, Inc.



249811

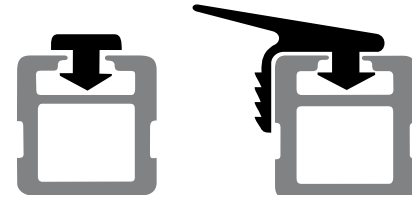
## Steel Stitch™ ZipStrip® – Sunbrella® Fabric with Tenara® Thread

This fabric covered PVC staple channel trim creates a traditional finish on woven canvas awnings and canopies. Fabric covered ZipStrip is made with Sunbrella Acrylic fabrics that completely conceal the PVC material. A durable lockstitch double seam of Tenara thread holds the fabric securely in place for years of attractive performance. Custom colors and fabrics are available.

Item Number	Color	Color Number	Standard Package
249813	Black	4608	160 ft.
249816	Burgundy	4631	160 ft.
249819	Captain Navy	4646	160 ft.

Item Number	Color	Color Number	Standard Package
249808	Charcoal Grey	4644	160 ft.
249818	Forest Green	4637	160 ft.
249811	Jockey Red	4603	160 ft.
249827	Medium Blue	4652	160 ft.
249823	Seagrass Green	4645	160 ft.
249809	Taupe	4648	160 ft.

ZipStrip® is a registered trademark of Steel Stitch Corp. Sunbrella® is a registered trademark of Glen Raven, Inc. Tenara® is a registered trademark of W.L. Gore & Associates, Inc.



249950

## Steel Stitch™ FlashStrip®

Driven into the back bar to create a secure seal against virtually any building surface. Eliminate the need for labor-intensive caulking by applying a single bead of the sealant to the product prior to installation.

Item Number	Color	Color Number	Standard Package
249950	Crystal Clear	31	125 ft.

Steel Stitch™ is a trademark of Steel Stitch Corporation. FlashStrip® is a registered trademark of Steel Stitch Corporation.





228033



250153



250162



250198



250216

## Steel Stitch™ Accessories

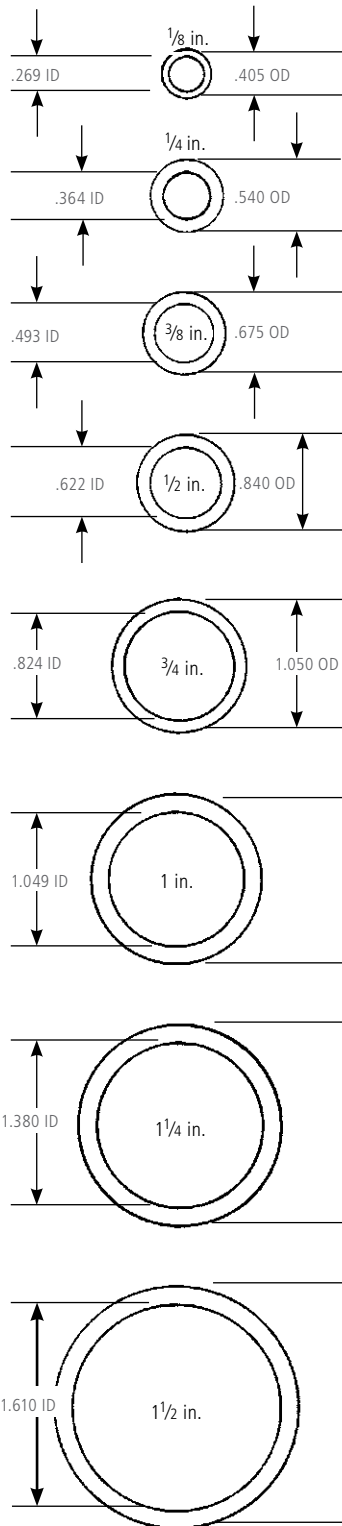
Steel Stitch branded chisel and divergent point staples work with Bea/Behrens (#250213, #250162), Fasco (#250198) and Apach (#250216) staplers.

Item Number	Style Number	Description	For Use With	Gauge	Put Up	Size	Standard Package	Thickness	Weight
250216	LU-9225AC	Apach Stapler with Case				8.8" x 2.3" x 7.8"	1		2.64 lbs.
250162	92/25-553	Bea/Behrens Stapler with Safety					1		
250213	92/25-553	Bea/Behrens Stapler					1		
228035	ASOK151	Danair Hammer O-Ring Kit					1		
228031	T15S	Danair Hammer Replacement Tip, Blue					1		
228033	158	Danair Hammer Replacement Valve					1		
228030	AH15S	Danair Pneumatic Hammer					1		
250198	F21T92-25AST	Fasco Stapler with Safety					1		
250222	805STA12CP	Staples - Steel Stitch Chisel Point Galvanized	BeA Stapler (#250213), BeA Stapler with Safety (#250162), Apach Stapler (#250216)	18	8400/box	1/2 in.	1 box	18 gauge	
250205	805STA38CP	Staples - Steel Stitch Chisel Point Galvanized	BeA Stapler (#250213), BeA Stapler with Safety (#250162), Apach Stapler (#250216)	18	5000/box	3/8 in.	1 box	18 gauge	
250158	810STA20	Staples - Steel Stitch Divergent Point Galvanized	BeA Stapler (#250213), BeA Stapler with Safety (#250162), Apach Stapler (#250216)	18	5000/box	1/2 in.	1 box	18 gauge	
250157	810STA10	Staples - Steel Stitch Divergent Point Galvanized	BeA Stapler (#250213), BeA Stapler with Safety (#250162), Apach Stapler (#250216)	18	5000/box	3/8 in.	1 box	18 gauge	
250202	810STA85	Staples - Steel Stitch Divergent Point Stainless Steel	BeA Stapler (#250213), BeA Stapler with Safety (#250162), Apach Stapler (#250216)	18	5000/box		1 box	18 gauge	
250153		Steel Stitch Grinding Disk					25		

Steel Stitch™ is a trademark of Steel Stitch Corporation.

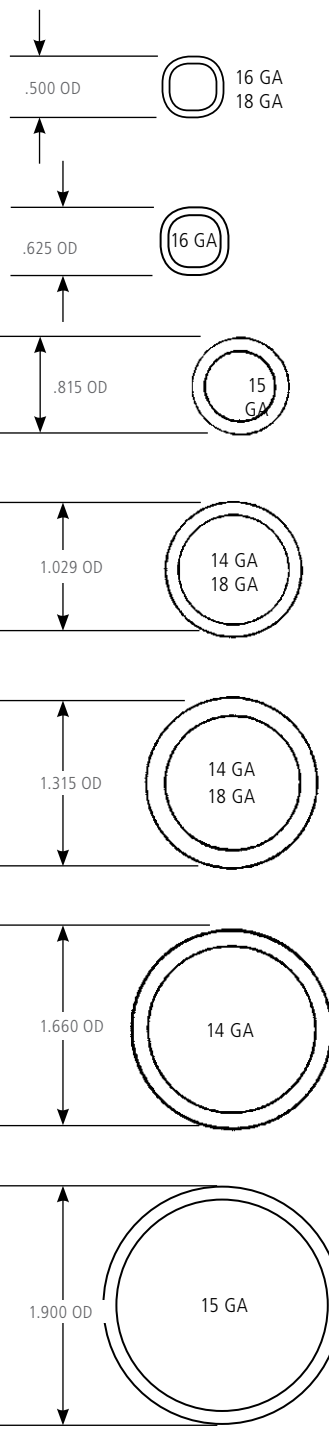
# GATORSHIELD® TUBING – GALVANIZED FINISH STEEL

## Pipe Schedule 40

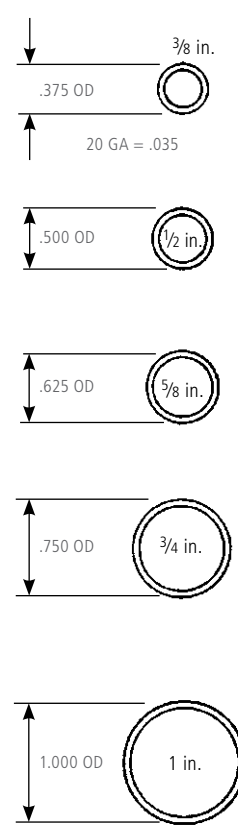


## Gatorshield Wall Size

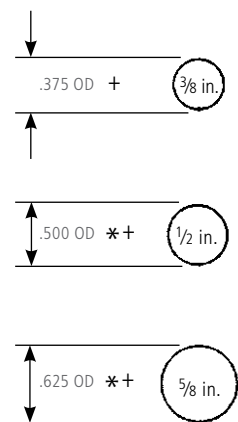
14 GA = .083      18 GA = .049  
 15 GA = .072      20 GA = .035  
 16 GA = .065



## Mechanical Tubing (Numerous wall sizes available)



## Awning Iron



ID = Inside Diameter  
 OD = Outside Diameter  
 \* = Available in Aluminum Headrod  
 + = Available in Fiberglass Headrod

Gatorshield® is a registered trademark of Allied Tube & Conduit Corporation.

# Gatorshield® – Galvanized Finish Steel Tubing

Gatorshield steel tubing offers triple layer corrosion protection on the exterior surface consisting of zinc, a conversion coating and a clear organic topcoat. The interior is fully covered with a corrosion-resistant zinc coating. Independent tests have proven our steel tubing offers dramatically higher corrosion resistance than other products being marketed for awning framework.

Item Number	Approximate Weight Per Piece	Feet Per Bundle	Gauge	Lbs Per Foot	Length	Pieces Per Bundle	Shape	Size Outside Diameter	Standard Package	Weight Per Bundle
276062	21.800 lbs.	740 ft.	14	1.09 lbs.	20 ft.	37	Round	1.315	37	807 lbs.
276086	12.600 lbs.	1200 ft.	18	0.63 lbs.	20 ft.	60	Square	1 in.	60	561 lbs.

Gatorshield® is a registered trademark of Allied Tube & Conduit Corporation.



254160

## Touch Up Paint – Gatorshield®

Item Number	Put Up	Standard Package
254160	12-oz aerosol can	12

Gatorshield® is a registered trademark of Allied Tube & Conduit Corporation.



233795

## Grommets – DOT® with Plain Washer

Item Number	Style Number	Finish	Hand Tools Part Number	Hole Size After Setting	Machine Tools Part Number	Material	Standard Package
233707	0		22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	25 gross
233715	0	Government Black	22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	25 gross
233727	0	Nickel Plated	22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	25 gross
233777	00		22-RHT00GR (#223530)	3/16 in.	22-RBS-00GR (#223561)	Brass	1 gross
233700	00		22-RHT00GR (#223530)	3/16 in.	22-RBS-00GR (#223561)	Brass	25 gross
233787	00	Government Black	22-RHT00GR (#223530)	3/16 in.	22-RBS-00GR (#223561)	Brass	1 gross
233699	00	Government Black	22-RHT00GR (#223530)	3/16 in.	22-RBS-00GR (#223561)	Brass	25 gross
233795	00	Nickel Plated	22-RHT00GR (#223530)	3/16 in.	22-RBS-00GR (#223561)	Brass	1 gross
233730	00	Nickel Plated	22-RHT00GR (#223530)	3/16 in.	22-RBS-00GR (#223561)	Brass	25 gross
233746	1		22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	1 gross
233708	1		22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	25 gross
233716	1	Government Black	22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	25 gross
233731	1	Nickel Plated	22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	25 gross
233709	2		22-RHT2GR (#223533)	3/8 in.	22-RBS-2GR (#223505)	Brass	25 gross
233728	2	Nickel Plated	22-RHT2GR (#223533)	3/8 in.	22-RBS-2GR (#223505)	Brass	25 gross
233710	3		22-RHT3GR (#223534)	7/16 in.	22-RBS-3GR (#223564)	Brass	25 gross
233718	3	Government Black	22-RHT3GR (#223534)	7/16 in.	22-RBS-3GR (#223564)	Brass	25 gross
233729	3	Nickel Plated	22-RHT3GR (#223534)	7/16 in.	22-RBS-3GR (#223564)	Brass	25 gross
233711	4		22-RHT4GR (#223535)	1/2 in.	22-RBS-4GR (#223565)	Brass	25 gross
233719	4	Government Black	22-RHT4GR (#223535)	1/2 in.	22-RBS-4GR (#223565)	Brass	25 gross
233732	4	Nickel Plated	22-RHT4GR (#223535)	1/2 in.	22-RBS-4GR (#223565)	Brass	25 gross
233778	5		22-RHT5GR (#233536)	5/8 in.	22-RBS-5GR (#223566)	Brass	1 gross
233692	5		22-RHT5GR (#233536)	5/8 in.	22-RBS-5GR (#223566)	Brass	25 gross
233697	5	Government Black	22-RHT5GR (#233536)	5/8 in.	22-RBS-5GR (#223566)	Brass	25 gross

Item Number	Style Number	Finish	Hand Tools Part Number	Hole Size After Setting	Machine Tools Part Number	Material	Standard Package
233796	5	Nickel Plated	22-RHT5GR (#223536)	5/8 in.	22-RBS-5GR (#223566)	Brass	1 gross
233733	5	Nickel Plated	22-RHT5GR (#223536)	5/8 in.	22-RBS-5GR (#223566)	Brass	25 gross
233779	6		22-RHT6GR (#223537)	13/16 in.	22-RBS-6GR (#223567)	Brass	1 gross
233693	6		22-RHT6GR (#223537)	13/16 in.	22-RBS-6GR (#223567)	Brass	10 gross
233797	6	Nickel Plated	22-RHT6GR (#223537)	13/16 in.	22-RBS-6GR (#223567)	Brass	1 gross

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – DOT® with Plain Washer (Washer Only)

Item Number	Style Number	Material	Standard Package
233508	4	Brass	25 gross

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – DOT® with Tooth Washer



233781

Item Number	Style Number	Finish	Hand Tools Part Number	Hole Size After Setting	Machine Tools Part Number	Material	Standard Package
233780	0		22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	1 gross
233694	0		22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	25 gross
233788	0	Government Black	22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	1 gross
233736	0	Government Black	22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	25 gross
233970	0	Nickel Plated	22-RHT0GR (#223531)	1/4 in.	22-RBS-0GR (#223562)	Brass	1 gross
233781	1		22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	1 gross
233695	1		22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	25 gross
233737	1	Government Black	22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	25 gross
233971	1	Nickel Plated	22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	1 gross
233687	1	Nickel Plated	22-RHT1GR (#223532)	9/32 in.	22-RBS-1GR (#223563)	Brass	25 gross
233712	2		22-RHT2GR (#223533)	3/8 in.	22-RBS-2GR (#223505)	Brass	25 gross
233720	2	Government Black	22-RHT2GR (#223533)	3/8 in.	22-RBS-2GR (#223505)	Brass	25 gross
233688	2	Nickel Plated	22-RHT2GR (#223533)	3/8 in.	22-RBS-2GR (#223505)	Brass	25 gross
233713	3		22-RHT3GR (#223534)	7/16 in.	22-RBS-3GR (#223564)	Brass	25 gross
233682	3	Government Black	22-RHT3GR (#223534)	1/4 in.	22-RBS-3GR (#223564)	Brass	1 gross
233721	3	Government Black	22-RHT3GR (#223534)	7/16 in.	22-RBS-3GR (#223564)	Brass	25 gross
233714	4		22-RHT4GR (#223535)	1/2 in.	22-RBS-4GR (#223565)	Brass	25 gross
233790	4	Government Black	22-RHT4GR (#223535)	1/2 in.	22-RBS-4GR (#223565)	Brass	1 gross
233775	4	Nickel Plated	22-RHT4GR (#223535)	1/2 in.	22-RBS-4GR (#223565)	Brass	1 gross
233689	4	Nickel Plated	22-RHT4GR (#223535)	1/2 in.	22-RBS-4GR (#223565)	Brass	25 gross
233782	5		22-RHT5GR (#223536)	5/8 in.	22-RBS-5GR (#223566)	Brass	1 gross
233696	5		22-RHT5GR (#223536)	5/8 in.	22-RBS-5GR (#223566)	Brass	25 gross

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – DOT® Rolled Rim with Spur Washer



234428

Item Number	Style Number	Finish	Hand Tools Part Number	Hole Size After Setting	Machine Tools Part Number	Material	Standard Package
233636	0		22-RHTORR (#223540)	9/32 in.	22-RBS-ORR (#223570)	Brass	25 gross
233722	0	Government Black	22-RHTORR (#223540)	9/32 in.	22-RBS-ORR (#223570)	Brass	25 gross
233641	0	Nickel Plated	22-RHTORR (#223540)	9/32 in.	22-RBS-ORR (#223570)	Brass	25 gross
234375	0		22-RHTORR (#223540)	9/32 in.	22-RBS-ORR (#223570)	Stainless Steel	1 gross
233637	1		22-RHT1RR (#223541)	13/32 in.	22-RBS-1RR (#248212)	Brass	25 gross
233723	1	Government Black	22-RHT1RR (#223541)	13/32 in.	22-RBS-1RR (#248212)	Brass	25 gross
234426	1	Nickel Plated	22-RHT1RR (#223541)	13/32 in.	22-RBS-1RR (#248212)	Brass	1 gross
233642	1	Nickel Plated	22-RHT1RR (#223541)	13/32 in.	22-RBS-1RR (#248212)	Brass	25 gross
234376	1		22-RHT1RR (#223541)	13/32 in.		Stainless Steel	1 gross
234428	2		22-RHT2RR (#223542)	7/16 in.	22-RBS-2RR (#223499)	Brass	1 gross
233638	2		22-RHT2RR (#223542)	7/16 in.	22-RBS-2RR (#223499)	Brass	25 gross
234430	2	Government Black	22-RHT2RR (#223542)	7/16 in.	22-RBS-2RR (#223499)	Brass	1 gross
233724	2	Government Black	22-RHT2RR (#223542)	7/16 in.	22-RBS-2RR (#223499)	Brass	25 gross
234429	2	Nickel Plated	22-RHT2RR (#223542)	7/16 in.	22-RBS-2RR (#223499)	Brass	1 gross
233643	2	Nickel Plated	22-RHT2RR (#223542)	7/16 in.	22-RBS-2RR (#223499)	Brass	25 gross
234377	2		22-RHT2RR (#223542)	3/8 in.	22-RBS-2RR (#223499)	Stainless Steel	1 gross
234431	3		22-RHT3RR (#223543)	15/32 in.	22-RBS-3RR (#223571)	Brass	1 gross
233639	3		22-RHT3RR (#223543)	15/32 in.	22-RBS-3RR (#223571)	Brass	25 gross
233725	3	Government Black	22-RHT3RR (#223543)	15/32 in.	22-RBS-3RR (#223571)	Brass	25 gross
233644	3	Nickel Plated	22-RHT3RR (#223543)	15/32 in.	22-RBS-3RR (#223571)	Brass	25 gross
234378	3		22-RHT3RR (#223543)	5/32 in.	22-RBS-3RR (#223571)	Stainless Steel	1 gross
233640	4		22-RHT4RR (#223544)	9/16 in.	22-RBS-4RR (#223572)	Brass	25 gross
234436	4	Government Black	22-RHT4RR (#223544)	9/16 in.	22-RBS-4RR (#223572)	Brass	1 gross
233726	4	Government Black	22-RHT4RR (#223544)	9/16 in.	22-RBS-4RR (#223572)	Brass	25 gross
233645	4	Nickel Plated	22-RHT4RR (#223544)	9/16 in.	22-RBS-4RR (#223572)	Brass	25 gross
234379	4		22-RHT4RR (#223544)	1/2 in.	22-RBS-4RR (#223572)	Stainless Steel	1 gross
233783	5		22-RHT5RR (#223545)	5/8 in.	22-RBS-5RR (#223573)	Brass	1 gross
233653	5		22-RHT5RR (#223545)	5/8 in.	22-RBS-5RR (#223573)	Brass	25 gross
233928	5	Nickel Plated	22-RHT5RR (#223545)	5/8 in.	22-RBS-5RR (#223573)	Brass	1 gross
233652	5		22-RHT5RR (#223545)	5/8 in.	22-RBS-5RR (#223573)	Stainless Steel	1 gross

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – DOT® Self-Piercing with Plain Washer

Will pierce most fabrics without pre-punching a hole, while setting the grommet and washer in the same action.



233958

Item Number	Style Number	Finish	Hand Tools Part Number	Hole Size After Setting	Machine Tools Part Number	Material	Standard Package
233958	0		Does not function with hand tools	1/4 in.	22-RBS-OSP (#223464)	Brass	500
233959	1		Does not function with hand tools	5/16 in.	22-RBS-1SP (#223465)	Brass	500
233960	2		Does not function with hand tools	3/8 in.	22-RBS-2SP (#223466)	Brass	500
233957	2	Nickel Plated	Does not function with hand tools	3/8 in.	22-RBS-2SP (#223466)	Brass	500
233961	3		Does not function with hand tools	7/16 in.	22-RBS-3SP (#223467)	Brass	500
233956	3	Nickel Plated	Does not function with hand tools	7/16 in.	22-RBS-3SP (#223467)	Brass	500

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – DOT® Self-Piercing Rolled Rim with Spur Washer

Will pierce most fabrics without pre-punching a hole, while setting the grommet and washer in the same action.



233890

Item Number	Style Number	Hand Tools Part Number	Hole Size After Setting	Machine Tools Part Number	Material	Standard Package
233890	0	Does not function with hand tools	1/4 in.	22-RNS-0RR (#223468)	Stainless Steel	1 gross
233891	1	Does not function with hand tools	5/16 in.	22-RNS-1RR (#223469)	Stainless Steel	1 gross
233897	1	Does not function with hand tools	5/16 in.	22-RNS-1RR (#223469)	Stainless Steel	25 gross
233892	2	Does not function with hand tools	3/8 in.	22-RNS-2RR (#223470)	Stainless Steel	1 gross
233898	2	Does not function with hand tools	3/8 in.	22-RNS-2RR (#223470)	Stainless Steel	25 gross
233893	3	Does not function with hand tools	7/16 in.	22-RNS-3RR (#223513)	Stainless Steel	1 gross
233894	4	Does not function with hand tools	1/2 in.	22-RNS-4RR (#223471)	Stainless Steel	1 gross
233895	5	Does not function with hand tools	5/8 in.	22-RNS-5RR (#223472)	Stainless Steel	1 gross
233901	5	Does not function with hand tools	5/8 in.	22-RNS-5RR (#223472)	Stainless Steel	25 gross

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – DOT® Sheet Metal

Constructed of heavy-duty materials, DOT Grommets and Washers are designed to provide reliable hole reinforcement. These high-quality grommets and washers conform to stringent commercial specifications. Trivantage® also offers a wide range of setting options to meet customers' unique requirements.

Item Number	Style Number	Description	Finish	Hole Size After Setting	Material	Standard Package
234409	0	Grommet and Neck Washer	Government Black	1/4 in.	Brass	1 gross
234408	0	Grommet and Neck Washer	Nickel	1/4 in.	Brass	1 gross
234404	00	Grommet and Neck Washer		3/16 in.	Brass	1 gross
234406	00	Grommet and Neck Washer	Government Black	3/16 in.	Brass	1 gross
234405	00	Grommet and Neck Washer	Nickel	3/16 in.	Brass	1 gross
234410	1	Grommet and Plain Washer		9/32 in.	Brass	1 gross
234412	1	Grommet and Plain Washer	Government Black	9/32 in.	Brass	1 gross
234411	1	Grommet and Neck Washer	Nickel	9/32 in.	Brass	1 gross
234413	2	Grommet and Neck Washer		3/8 in.	Brass	1 gross
234395	2	Grommet and Tooth Washer		3/8 in.	Brass	1 gross
234386	2	Grommet and Plain Washer		3/8 in.	Brass	1 gross
234415	2	Grommet and Plain Washer	Government Black	3/8 in.	Brass	1 gross
234388	2	Grommet and Plain Washer	Government Black	3/8 in.	Brass	1 gross
234397	2	Grommet and Tooth Washer	Government Black	3/8 in.	Brass	1 gross
234414	2	Grommet and Neck Washer	Nickel	3/8 in.	Brass	1 gross
234416	3	Grommet and Neck Washer		7/16 in.	Brass	1 gross
234389	3	Grommet and Plain Washer		7/16 in.	Brass	1 gross
234398	3	Grommet and Tooth Washer		7/16 in.	Brass	1 gross
234418	3	Grommet and Neck Washer	Government Black	7/16 in.	Brass	1 gross
234417	3	Grommet and Neck Washer	Nickel	7/16 in.	Brass	1 gross
234390	3	Grommet and Plain Washer	Nickel	7/16 in.	Brass	1 gross
234419	4	Grommet and Neck Washer		1/2 in.	Brass	1 gross
234401	4	Grommet and Tooth Washer		1/2 in.	Brass	1 gross
234394	4	Grommet and Plain Washer	Government Black	1/2 in.	Brass	1 gross

Items continue on next page.

Item Number	Style Number	Description	Finish	Hole Size After Setting	Material	Standard Package
234421	4	Grommet and Neck Washer	Government Black	1/2 in.	Brass	1 gross
234403	4	Grommet and Tooth Washer	Government Black	1/2 in.	Brass	1 gross
234420	4	Grommet and Neck Washer	Nickel	1/2 in.	Brass	1 gross

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – DOT® Special Brass And Washers

Item Number	Style Number	Description	Finish	Hand Tools Part Number	Hole Size After Setting	Machine Tools Part Number	Material	Standard Package
233734	0	Grommet with A1197 Washer	Nickel Plated		1/4 in.		Brass	25 gross
233656	1	Grommet with A1340 Neck Washer			9/32 in.		Brass	25 gross
233704	1	Grommet with A1340 Neck Washer	Government Black		9/32 in.		Brass	25 gross
233705	1	Grommet with A1340 Neck Washer	Nickel Plated		9/32 in.		Brass	25 gross
233706	2	Grommet with A3630 Washer			3/8 in.		Brass	25 gross
233702	2	Grommet with A3630 Washer	Nickel Plated		3/8 in.		Brass	25 gross
233198	4	Grommet with Neck Washer			1/2 in.		Brass	25 gross
233944	2J	Grommet with Neck Washer		22-RHT2GR (#223533)	3/8 in.	22-RBS-2JGR (#223569)	Brass	25 gross
233946	2J	Grommet with Plain Washer		22-RHT2GR (#223533)	3/8 in.	22-RBS-2JGR (#223569)	Brass	1 gross
233945	1J	Grommet with Plain Washer		22-RHT2GR (#223532)	9/32 in.	22-RBS-1JGR (#223568)	Brass	1 gross
233948	2J	Grommet with Plain Washer		22-RHT2GR (#223533)	3/8 in.	22-RBS-2JGR (#223569)	Brass	25 gross
233947	1J	Grommet with Plain Washer		22-RHT2GR (#223532)	9/32 in.	22-RBS-1JGR (#223568)	Brass	25 gross
233717	2	Grommet with Plain Washer	Government Black	22-RHT2GR (#223533)	3/8 in.	22-RBS-2GR (#223505)	Brass	25 gross
233979	2	Grommet with Special Lube Washer			3/8 in.		Brass	25 gross
233455	4	Rolled Rim Grommet (Washer Not Included)	Nickel Plated		1/2 in.		Brass	125 gross drum
233479	4	Spur Washer (Grommet Not Included)	Nickel Plated		9/16 in.		Brass	125 gross drum
233283	2	Spur Washer (Washer Only)			7/16 in.		Brass	25 gross

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Grommets – Sharpened Edge with Small Tooth Locking Channel Washer

Will pierce most fabrics without pre-punching a hole, while setting the grommet and washer in the same action.

Item Number	Style Number	Finish	Hole Size After Setting	Material	Standard Package
233071	1	Nickel Plated	5/16 in.	Brass	500
233566	2	Nickel Plated	3/8 in.	Brass	500
233567	3	Nickel Plated	7/16 in.	Brass	100

## Grommets – Self-Piercing with Plain Washer

Will pierce most fabrics without pre-punching a hole, while setting the grommet and washer in the same action.

Item Number	Style Number	Hole Size After Setting	Material	Standard Package
235413	1	5/16 in.	Stainless Steel	500
235414	2	3/8 in.	Stainless Steel	500

## Grommets – Self-Piercing Rolled Rim with Spur Washer

Will pierce most fabrics without pre-punching a hole, while setting the grommet and washer in the same action.

Item Number	Style Number	Finish	Hole Size After Setting	Material	Standard Package
233024	1	Nickel Plated	3/8 in.	Brass	250
233025	2	Nickel Plated	7/16 in.	Brass	250





502109

## E-Z Lace Supreme®

E-Z Lace Supreme eliminates the need to insert grommets. A 1 inch re-enforced side hole size makes lacing that much easier and quicker, while the 3 inch center spacing of the holes greatly increases manufacturing design flexibility. E-Z Lace Supreme also has a specialized and durable finish that resists mildew and ultraviolet rays, significantly increasing long-term strength and durability.

Item Number	Style Number	Color	Material	Put Up	Width
502108	6608	Black	42% Solution-Dyed Acrylic, 58% Solution-Dyed Polyester	50 yd.	2-1/8 in.
502109	6630	Cadet Grey	42% Solution-Dyed Acrylic, 58% Solution-Dyed Polyester	50 yd.	2-1/8 in.
502111	6637	Forest Green	42% Solution-Dyed Acrylic, 58% Solution-Dyed Polyester	50 yd.	2-1/8 in.
502112	6604	Natural	42% Solution-Dyed Acrylic, 58% Solution-Dyed Polyester	50 yd.	2-1/8 in.

E-Z Lace Supreme® is a trademark of Offray Specialty Narrow Fabrics.



207724

## Buckles – “Push-Button”

Item Number	Style Number	Finish	For Use With	Material	Standard Package	Webbing Size
207723	#6105		1 in. Webbing	Stainless Steel	100	1 in.
207721	#6105		1-1/2 in. Webbing	Stainless Steel	100	1-1/2 in.
207671	#6105	Black Enamel	1 in. Webbing	Steel	100	1 in.
207724	#6105	Nickel Plated	1 in. Webbing	Steel	100	1 in.
207722	#6105	Nickel Plated	1-1/2 in. Webbing	Steel	100	1-1/2 in.
207668	#6105	Zinc Plated	1 in. Webbing	Steel	100	1 in.



207652



207680

## Buckles – For Nylon Or Polyester Webbing

A 1 inch non-slip buckle developed to provide a positive hold on very smooth nylon or polyester webbing when webbing is threaded through the buckle.

Item Number	Style Number	Finish	For Use With	Material	Standard Package	Webbing Size
207652	#1020	Nickel Plated	1 in. Webbing	Steel	100	1 in.
207680	#4042	Nickel Plated	1 in. Webbing	Steel	100	1 in.



207558

## Buckles – Single Bar

For 1 inch webbing. Sheet brass, black finish. Meets Mil-B-543 Type 1, Style 2, Class 1.

Item Number	Style Number	Finish	For Use With	Material	Standard Package	Webbing Size
207558	#146	Government Black	1 in. Webbing	Brass	100	1 in.

## Buckles – Tongueless

Dependable and sturdy buckles with a firm locking toothed slide. Made of the finest grade stamped steel.



207508



207512



207516

Item Number	Style Number	Finish	For Use With	Material	Standard Package	Type	Webbing Size
207512	#2690	Cadmium Plated	1-1/2 in. Webbing	Steel	50	Type 1, 2, 3	1-1/2 in.
207517	#5270	Nickel Plated	2 in. Webbing	Steel	100	Type 1, 2, 3	2 in.
207516	#5270	Zinc Plated	2 in. Webbing	Steel	50	Type 1, 2, 3	2 in.

## Clip And Dee



260441

Item Number	Style Number	Finish	Inside Dimension Width	Length	Material	Size	Size Hole	Standard Package
213820	1954		3/4 in.	1-3/8 in.	Stainless Steel		0.201 in.	1000
260441	1954	Nickel Plated	3/4 in.		Steel	1-3/8 in.	0.201 in.	1000

## Footman Loop

Made of zinc-plated steel.



249216

Item Number	Diameter Hole	Standard Package	Webbing Size
249108	7/32 in.	100	1 in.
249114	7/32 in.	100	1-1/2 in.
249116	1/4 in.	100	2 in.

## Webbing Loop

Made of nickel-plated steel.



295565

Item Number	Style Number	Size	Standard Package	Type
295560	4950	1 in. x 7/16 in.	100	Unwelded
295565	69900	2 in. x 7/16 in.	100	Unwelded

## Triangle Ring



275703

Item Number	Finish	Material	Size	Standard Package
275703	Nickel Plated	Steel	1-1/2 in. x 1-1/2 in. x 1-1/2 in.	100



260511

## Dee Ring – Zinc Die-Cast

Item Number	Style Number	Description	Inside Dimension Height	Inside Dimension Width	Material	Standard Package	Wire Diameter
260511	45204	Non-Welded	8/9 in.	1 in.	Zinc Die-Cast	1000	0.154 in.



260527

## Dee Ring – Zinc Plated

Made of steel wire, with a zinc plating.

Item Number	Style Number	Description	Inside Dimension Height	Inside Dimension Width	Standard Package	Wire Diameter
260507	563	Non-Welded	5/8 in.	3/4 in.	500	0.135 in.
260508	563	Non-Welded	7/8 in.	1 in.	200	0.135 in.
260512	563	Non-Welded	1-3/16 in.	1-1/2 in.	200	0.148 in.
260527	3250	Welded	3/4 in.	7/8 in.	100	0.207 in.
260528	3250	Welded	7/8 in.	1 in.	100	0.207 in.
260529	3250	Welded	1 in.	1-1/8 in.	100	0.207 in.
260530	3250	Welded	1-1/8 in.	1-1/4 in.	100	0.243 in.
260532	3250	Welded	1-5/16 in.	1-1/2 in.	50	0.253 in.
260534	3250	Welded	1-1/2 in.	1-3/4 in.	50	0.262 in.
260536	3250	Welded	1-5/8 in.	2 in.	50	0.262 in.



260500

## Dee Ring – Nickel Plated

Item Number	Style Number	Description	Finish	Inside Dimension Height	Inside Dimension Width	Material	Standard Package	Wire Diameter
260500	3250	Welded	Nickel Plated	1-3/5 in.	2 in.	Steel	500	0.260 in.
260502	563	Non-Welded	Nickel Plated	3/4 in.	1 in.	Steel	200	0.135 in.
260503	563	Non-Welded	Nickel Plated	5/8 in.	3/4 in.	Steel	500	0.135 in.



295531

## Webbing – 3 Bar Slide

Made of stamped steel, nickel plated. Used for garments, parkas, outerwear, equestrian equipment, horse blankets.

Item Number	Style Number	Size	Standard Package
295531	02300	1 in.	500
295532	02300	1-1/2 in.	500
295534	02300	2 in.	500
295537	03300	2 in.	200

295537



274908

## Webbing – Tip For Types I And II Webbing

Flat type. Nickel plated steel.

Item Number	Style Number	Size	Standard Package
274908	1	1 in.	1000

## Webbing – Tip For Types I, II And III Webbing

Ball type. Brass with black finish. Meets Government Specifications MIL-C-496.



275008

Item Number	Style Number	Size	Standard Package
275008	149	1 in.	1000

## ACW Side Release Buckles



207701

Item Number	Style Number	Description	Color	Material	Standard Package	Webbing Size
207701	91514 BSR	Side Release Buckle	Black	Acetal	100	1 in.

## Fastex® Side Release Buckle

Can be used on backpacks, camera bags, and many other fastening applications.



585060

Item Number	Color	Material	Standard Package	Webbing Size
585030	Black	Acetal	100	1 in.
585060	Black	Acetal	100	1-1/2 in.
585075	Black	Acetal	100	2 in.
585015	Black	Acetal	100	3/4 in.
585031	White	Acetal	100	1 in.

Fastex® is a registered trademark of ITW.

## Fastex® Ladderloc™

Can be used on backpacks, camera bags, and many other fastening applications.



585215

Item Number	Style Number	Color	Material	Standard Package	Webbing Size
585215	154-0075	Black	Acetal	100	3/4 in.
585270	104-2200	Black	Acetal	100	2 in.
585283	154-3100-5614	Black	Acetal	1000	1 in.

Fastex® is a registered trademark of ITW.

## ACW Cam Buckles



207720

Item Number	Style Number	Color	Material	Standard Package	Webbing Size
207720	91390 CB	Black	Acetal	100	1 in.



586430

## Fastex® Cam Buckle

This versatile buckle works with a camming action directly against webbing. It provides easy adjustment and high security at the same time and is suitable for a wide range of webbing applications. One-handed quick release.

Item Number	Color	Color Number	Material	Standard Package	Webbing Size
586430	Black	525	Acetal	100	1 in.

Fastex® is a registered trademark of ITW.



586110

## Fastex® Barreloc

Limitless applications include locking sleeping bag and parka hood draw strings. Can be used with either one or two cords.

Item Number	Color	Cord Size	Material	Standard Package
586110	Black	3/16 in.	Acetal	100

Fastex® is a registered trademark of ITW.



586578

## Fastex® Ellipse Cordloc

Provides an option for a lanyard tie down to assist in hand adjustments.

Item Number	Color	Cord Size	Material	Standard Package
586578	Black	1/4 in.	Acetal	1000

Fastex® is a registered trademark of ITW.



585630

## Fastex® D-Ring

These D-rings are perfect whenever a sturdy attachment point is required. Unlike metal D-rings, they won't rust or corrode.

Item Number	Color	Material	Standard Package	Webbing Size
585630	Black	Acetal	100	1 in.
585660	Black	Acetal	100	1-1/2 in.
585675	Black	Acetal	100	2 in.

Fastex® is a registered trademark of ITW.



585775

## Fastex® Looploc

Ideal for holding straps or webbing where no adjustment is needed.

Item Number	Style Number	Color	Material	Standard Package	Webbing Size
585715	111-0100	Black	Acetal	100	1 in.
585760	111-0150	Black	Acetal	100	1-1/2 in.
585775	111-0200	Black	Acetal	100	2 in.

Fastex® is a registered trademark of ITW.



586920

## Fastex® Shock Cord Hook

These shock cord fasteners will not mar or scratch anything they touch. The entire unit is molded, which eliminates the necessity of using a metal crimp ring. They are also rust and corrosion proof. Operates under all weather conditions. Not affected by salt water.

Item Number	Style Number	Color	Cord Size	Material	Standard Package
586920	605-0250-5614	Black	1/4 in.	Acetal	100
586930	605-0375	Black	5/16 in.	Acetal	100

Fastex® is a registered trademark of ITW.



585975

## Fastex® Triglide™ 3 Bar Slide

For sporting, recreational, luggage, medical, apparel and juvenile products. Extremely popular in the floatation and backpacking industries, these buckles can be used wherever webbing closures are needed. Useful in just about any application in which a variable length strap assembly is required.

Item Number	Style Number	Color	Material	Standard Package	Webbing Size
585930	105-0100	Black	Acetal	100	1 in.
585960	105-0150	Black	Acetal	100	1-1/2 in.
585975	105-0200	Black	Acetal	100	2 in.

Fastex® is a registered trademark of ITW. Triglide™ is a trademark of ITW.



585310

## Snaphook – Interlocking Snaphook

Applications are similar to those of the side release buckle. However, the “tooth” design increases the overall strength.

Item Number	Style Number	Color	Material	Standard Package
585310	106-1000	Black	Delrin®	100

Delrin® is a registered trademark of E.I. DuPont de Nemours and Company, Inc.



585300

## Snaphook – Standard Snaphook

Used most often for detachable shoulder straps.

Item Number	Style Number	Color	Material	Standard Package
585300	106-0000	Black	Delrin®	100

Delrin® is a registered trademark of E.I. DuPont de Nemours and Company, Inc.

## YKK® Fasteners

All plastic hardware.



207543



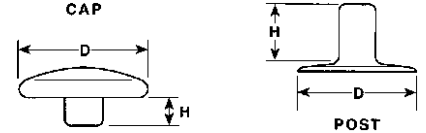
586089

Item Number	Style Number	Description	Color	Cord Size	Standard Package	Webbing Size
207543	LBRU1	Heavy Duty Quick Release Buckle	Black		1000	1"
586089	LC05SHD2	Single Cord Lock with Double Loop	Black	3/16 in.	1500	

YKK® is a registered trademark of YKK Corporation in Japan and other countries/regions.

## DOT® Baby Durable™

An intermediate size snap fastener. Baby Durable provides firm snap action and strong holding power without being visually prominent on the end item.



230717



230792



230795



230959



230991



230993



230995



230997



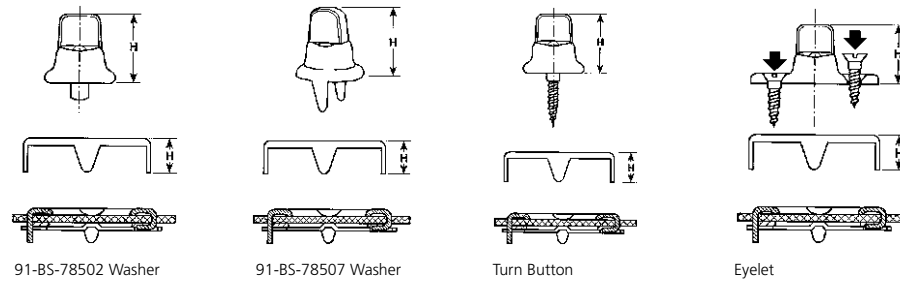
Item Number	Style Number	Description	Finish	Size	Standard Package
230993	94-XB-12205-2C	Socket	Black Oxide		1000
230480	94-XB-12205-1D	Socket	Bright Brass		100
230483	94-XX-12206-1D	Socket	Bright Brass		100
230476	94-X2-12108-1B	Cap	Government Black	3/16 in.	100
230991	94-X2-12108-2B	Cap	Government Black	3/16 in.	1000
230478	94-X2-12126-1B	Cap	Government Black	19/64 in.	100
230479	94-XB-12105-1B	Linge Cap	Government Black	1/8 in.	100
230997	94-BS-12402-2C	Post	Government Black	3/16 in.	1000
230472	94-BS-12404-1C	Post	Government Black	1/4 in.	100
230473	94-BS-12405-1C	Post	Government Black	1/4 in.	100
230475	94-BS-12407-1C	Post	Government Black	3/16 in.	100
230482	94-XX-12206-1C	Socket	Government Black		100
230469	94-BS-12302-1C	Stud, Narrow Flange	Government Black		100
230471	94-BS-12303-1C	Stud, Wide Flange	Government Black		100
230995	94-BS-12302-2C	Stud	Government Black		1000
230477	94-X2-12126-1A	Cap	Nickel Plated	19/64 in.	100
230717	94-XB-12105-4A	Cap	Nickel Plated		100
230794	94-BS-12402-1A	Post	Nickel Plated	3/16 in.	100
230795	94-BS-12404-2A	Post	Nickel Plated	1/4 in.	1000
230792	94-XB-12205-4A	Socket	Nickel Plated		100
230481	94-XX-12206-1A	Socket	Nickel Plated		100
230470	94-BS-12303-1A	Stud, Wide Flange	Nickel Plated		100
230959	94-BS-12303-2A	Stud	Nickel Plated		1000

DOT® is a registered trademark of Scovill Fasteners, Inc. Baby Durable™ is a trademark of Scovill Fasteners, Inc.

# DOT® Common Sense® / Curtain Fasteners

Curtain fasteners are available in black oxide, gilt or nickel-plated finish. All studs have rust-resistant brass springs. Sold in full package lots of 100 and 1000 pieces.

For Style #s XB78322 and XB78323, a #6 oval head wood screw is recommended for wood and a #6 flat head screw of appropriate length for other materials.



91-B5-78502 Washer

91-B5-78507 Washer

Turn Button

Eyelet



230228



230303



230305



230307



230311



230323



230332

Item Number	Style Number	Description	Finish	Size	Standard Package	Tools Part Number
230509	91-PS-78511-49	Plastic Washer			100	
230403	91-B5-78403-1E	Eyelet	Gilt		100	C4-450 (#216045)
230203	91-B5-78403-2E	Eyelet	Gilt		1000	C4-450 (#216045)
230423	91-XB-78323-1E	Turn Button Double Height Two Screw Holes	Gilt		100	
230426	91-XB-783247-1E	Turn Button Screw Stud	Gilt	5/8 in.	100	89-9908 (#275584)
230226	91-XB-783247-2E	Turn Button Screw Stud	Gilt	5/8 in.	1000	89-9908 (#275584)
230422	91-XB-78322-1E	Turn Button Two Screw Holes	Gilt		100	
230405	91-B5-78505-1D	Washer	Gilt		100	
230205	91-B5-78505-2D	Washer	Gilt		1000	
230446	91-B5-78502-1C	Back Plate	Government Black		100	
230580	91-B5-78403-1G	Eyelet	Government Black		100	
230380	91-B5-78403-2G	Eyelet	Government Black		1000	
230537	91-B5-78404-1G	Eyelet	Government Black		100	
230587	91-XB-78332-1G	Turn Button Double Prong	Government Black		100	171 (#275575)
230386	91-XB-78322-2G	Turn Button Two Screw Holes	Government Black		1000	
230448	91-XB-78317-1G	Turn Button	Government Black		100	
230449	91-XB-78322-1G	Turn Button	Government Black		100	
230450	91-XB-78323-1G	Turn Button	Government Black		100	
230581	91-B5-78505-1C	Washer	Government Black		100	
230381	91-B5-78505-2C	Washer	Government Black		1000	
230447	91-B5-78510-1C	Washer	Government Black		100	
230520	91-X8-783247-1A	Turn Button Screw Stud	Nickel Plated, Stainless Steel Stud	5/8 in.	100	89-9908 (#275584)
230228	91-X8-783247-2A	Turn Button Screw Stud	Nickel Plated, Stainless Steel Stud	5/8 in.	1000	89-9908 (#275584)
230531			Nickel Plated			89-9908 (#275584)
230504	91-B5-78502-1A	Back Plate	Nickel Plated		100	
230307	91-B5-78507-2A	Back Plate	Nickel Plated		1000	171 (#275575)
230507	91-B5-78507-4A	Back Plate	Nickel Plated		100	171 (#275575)
230534	91-B5-78404-4A	Eyelet (Long)	Nickel Plated		100	
230303	91-B5-78403-2A	Eyelet	Nickel Plated		1000	C4-450 (#216045)
230503	91-B5-78403-4A	Eyelet	Nickel Plated		100	C4-450 (#216045)

Items continue on next page.





Item Number	Style Number	Description	Finish	Size	Standard Package	Tools Part Number
230527	91-XB-783257-1A	Turn Button Double Height Screw Stud	Nickel Plated	5/8 in.	100	89-9908 (#275584)
230327	91-XB-783257-2A	Turn Button Double Height Screw Stud	Nickel Plated	5/8 in.	1000	89-9908 (#275584)
230323	91-XB-78323-2A	Turn Button Double Height Two Screw Holes	Nickel Plated		1000	
230523	91-XB-78323-4A	Turn Button Double Height Two Screw Holes	Nickel Plated		100	
230533	91-XB-78333-1A	Turn Button Double Prong Double Height	Nickel Plated		100	171 (#275575)
230332	91-XB-78332-2A	Turn Button Double Prong	Nickel Plated		1000	171 (#275575)
230532	91-XB-78332-4A	Turn Button Double Prong	Nickel Plated		100	171 (#275575)
230326	91-XB-783247-2A	Turn Button Screw Stud	Nickel Plated	5/8 in.	1000	89-9908 (#275584)
230526	91-XB-783247-4A	Turn Button Screw Stud	Nickel Plated	5/8 in.	100	89-9908 (#275584)
230220	91-XX-783157-2A	Turn Button Screw Stud	Nickel Plated	5/8 in.	1000	
230500	91-XX-783157-4A	Turn Button Screw Stud	Nickel Plated	5/8 in.	100	89-9908 (#275584)
230322	91-XB-78322-2A	Turn Button Two Screw Holes	Nickel Plated		1000	
230522	91-XB-78322-4A	Turn Button Two Screw Holes	Nickel Plated		100	
230549	91-XB-78317-4A	Turn Button	Nickel Plated		100	
230530	91-XB-78318-1A	Turn Button	Nickel Plated		100	
230305	91-BS-78505-2A	Washer	Nickel Plated		1000	
230505	91-BS-78505-4A	Washer	Nickel Plated		100	
230311	91-BS-78510-2A	Washer	Nickel Plated		1000	
230508	91-BS-78510-4A	Washer	Nickel Plated		100	

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## DOT® Durable™ Blind Rivet Stud



This component will provide the installer with a convenient method for securing a stud on hard surfaces such as steel, aluminum, tubing and panels.

Blind Rivet Studs are set in the same manner as typical pop rivets and eliminate the need for threading a stud into a pre-drilled hole or using a machine screw and nut combination. Used with the X2-10128 Button and XB-10224 Socket or similar combinations.

Item Number	Style Number	Description	Size	Standard Package
230772	93-X8-10314-1A	Nickel Plated, Stainless Steel Mandrel	0.299 in.(H), Mandrel Head and Rivet Pin	100
230932	93-X8-10314-2A	Nickel Plated, Stainless Steel Mandrel	0.299 in.(H), Mandrel Head and Rivet Pin	1000
230774	93-X8-10319-1A	Nickel Plated, Stainless Steel Mandrel	0.486 in. (H), Mandrel Head and Rivet Pin	100

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## DOT® Durable™ Enamel

These ultraviolet stabilized enamel painted caps are in popular demand. The generous color selection is designed to match or compliment a wide variety of today's most popular marine fabrics. Available in packs of 100 and 1000.



229625



Item Number	Style Number	Color	Size	Standard Package
229684	93-X8-10128-9024-1V	Bahama Berry	11/64 in. Barrel	100
229901	93-X2-10128-1339-2V	Black	11/64 in. Barrel	1000
229601	93-X2-10128-1339-1V	Black	11/64 in. Barrel	100
229650	93-X8-10128-1339-1V	Black	11/64 in. Barrel	100
229669	93-X8-10128-9009-1V	Blue Marlin	11/64 in. Barrel	100
229617	93-X2-10128-2595-1V	Butternut Beige	11/64 in. Barrel	100
229625	93-X2-10128-9000-1V	Cadet Grey	11/64 in. Barrel	100
229660	93-X8-10128-9000-1V	Cadet Grey	11/64 in. Barrel	100
229623	93-X2-10128-9002-1V	Captain Navy	11/64 in. Barrel	100
229662	93-X8-10128-9002-1V	Captain Navy	11/64 in. Barrel	100
229620	93-X2-10128-1473-1V	Dark Green	11/64 in. Barrel	100
229900	93-X2-10128-1534-2V	Dull Black	11/64 in. Barrel	1000
229600	93-X2-10128-1534-1V	Dull Black	11/64 in. Barrel	100
229653	93-X8-10128-1534-1V	Dull Black	11/64 in. Barrel	100
229632	93-X2-10128-9004-1V	Heather Beige	11/64 in. Barrel	100
229664	93-X8-10128-9004-1V	Heather Beige	11/64 in. Barrel	100
229688	93-X8-10128-9028-1V	Jericho Tan	11/64-in. Barrel	100
229604	93-X2-10128-1487-1V	Lindy	11/64 in. Barrel	100
229690	93-X8-10128-9030-1V	Logo Red	11/64 in. Barrel	100
229629	93-X2-10128-9030-1V	Logo Red	11/64 in. Barrel	100
229611	93-X2-10128-1290-1V	Medium Turquoise	11/64 in. Barrel	100
229615	93-X2-10128-2104-1V	Mulberry	11/64 in. Barrel	100
229622	93-X2-10128-9012-1V	Ranch Blue	11/64 in. Barrel	100
229672	93-X8-10128-9012-1V	Ranch Blue	11/64 in. Barrel	100
229671	93-X8-10128-9011-1V	Shingle Grey	11/64 in. Barrel	100
229693	93-X8-10128-9033-1V	Smoke Ring	11/64 in. Barrel	100
229666	93-X8-10128-9006-1V	Taupe	11/64 in. Barrel	100
229665	93-X8-10128-9005-1V	Toast	11/64 in. Barrel	100
229696	93-X8-10128-9036-1V	True Brown	11/64 in. Barrel	100
229624	93-X2-10128-9031-1V	Walden White	11/64 in. Barrel	100
229602	93-X2-10128-1959-1V	White	11/64 in. Barrel	100
229902	93-X2-10128-1959-2V	White	11/64 in. Barrel	1000
229654	93-X8-10128-1959-1V	White	11/64 in. Barrel	100
229658	93-X8-10128-3209-1V	Winter Wheat	11/64 in. Barrel	100
229630	93-X2-10128-3209-1V	Winter Wheat	11/64 in. Barrel	100

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## DOT® Durable™ Mariner™

High ultraviolet resistant plastic cap with a super-strong, self-piercing eyelet. Size matches the standard all-brass construction DOT Durable button.

230881

Item Number	Style Number	Color	Standard Package
230681	93-XV-10150-1X	Black	100
230881	93-XV-10150-2X	Black	1000
230682	93-XV-10150-11	Red	100
230680	93-XV-10150-1V	White	100

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230784      230705      230727      230728      230740      230758      230760      230899      230900

## DOT® Durable™

Durable Fasteners are a medium-sized heavy-duty button type snap fastener. They are used largely by manufacturers of boat covers, porch curtains and industrial curtains. These fasteners are available in nickel or black finish on brass. Sold only in full package lots of 100, 1,000 or 10,000 pieces where indicated. Certain durable fasteners meet Government Specification MS-27980.

Item Number	Style Number	Description	Finish	For Use With	Hand Tools Part Number	Machine Tools Part Number	Size	Standard Package
230464	93-X2-10127-1E	Cap	Bright Brass	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	1/4 in. (H)	100
230458	93-BS-10379-1D	Eyelet Stud, Low Shelf	Bright Brass					100
230459	93-BS-10413-1D	Post	Bright Brass		9896/9897 (#248133)	1407 (#223507)	5/16 in. (H)	100
230460	93-BS-10414-1D	Post	Bright Brass		9896/9897 (#248133)	1407 (#223507)	3/8 in. (H)	100
230468	93-XX-10224-1D	Socket	Bright Brass	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		100
230463	93-X2-10112-1B	Cap	Government Black				5/16 in. (H)	100
230784	93-X2-10127-1B	Cap	Government Black	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	1/4 in. Barrel	100
230888	93-X2-10127-2B	Cap	Government Black	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	1/4 in. Barrel	1000
230780	93-X2-10128-1B	Cap	Government Black	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	11/64 in. Barrel	100
230898	93-X2-10128-2B	Cap	Government Black	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	11/64 in. Barrel	1000

Item Number	Style Number	Description	Finish	For Use With	Hand Tools Part Number	Machine Tools Part Number	Size	Standard Package
230465	93-X8-10128-1B	Cap	Government Black	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	1 1/64 in. (H)	100
230455	93-BS-10123-1C	Carpet Snap, Ring	Government Black					100
230467	93-XX-10222-1C	Carpet Snap, Socket	Government Black					100
230457	93-BS-10379-1C	Eyelet Stud, Low Shelf	Government Black					100
230729	93-XB-10342-1C	Gypsy Stud	Government Black			9557 (#275580)		100
230783	93-BS-10412-1C	Post	Government Black	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	1/4 in.	100
230895	93-BS-10412-2C	Post	Government Black	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	1/4 in. (H)	1000
230788	93-BS-10414-1C	Post	Government Black		9896/9897 (#248133)	1407 (#223507)	3/8 in. (H)	100
230781	93-XB-10224-1C	Socket	Government Black	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		100
230896	93-XB-10224-2C	Socket	Government Black	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		1000
230786	93-XX-10224-1C	Socket	Government Black	93-X2-10127-1A (#230701, #230899, #230784, #230888), 10128 (#230702)	164H (#275564)	1410 (#223510)		100
230787	93-XX-10224-2C	Socket	Government Black	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		1000
230782	93-BS-10370-1C	Stud	Government Black	93-BS-10413-1A (#230741), 93-BS-10413-2A (#230924)	164H (#275564)	1412 (#223512)		100
230897	93-BS-10370-2C	Stud	Government Black	93-BS-10413-1A (#230741), 93-BS-10413-2A (#230924)	164H (#275564)	1412 (#223512)		1000
230844	93-X8-103937-1C		Government Black/ Stainless Steel Screw		169N (#275504)		5/8 in.	100
230843	93-X8-103937-2C	Nickel Plated, Stainless Steel Screw	Government Black/ Stainless Steel Screw		169N (#275504)		5/8 in.	1000
230703	93-X2-10129-1A	20 Ligne Cap	Nickel Plated	10231 (#230838), 10342 (#230728, #230729, and #230935)	10342 (#275428)	9557 (#275580)	3/16 in. Barrel	100
230462	93-X2-10112-1A	Cap	Nickel Plated		164H (#275564)		5/16 in. (H)	100
230701	93-X2-10127-1A	Cap	Nickel Plated	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	1/4 in. Barrel	100
230899	93-X2-10127-2A	Cap	Nickel Plated	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	1/4 in. Barrel	1000

Items continue on next page.

HARDWARE **MARINE**

Item Number	Style Number	Description	Finish	For Use With	Hand Tools Part Number	Machine Tools Part Number	Size	Standard Package
230702	93-X2-10128-1A	Cap	Nickel Plated	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	11/64 in. Barrel	100
230900	93-X2-10128-2A	Cap	Nickel Plated	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	11/64 in. Barrel	1000
230890	93-X2-10128-3A	Cap	Nickel Plated	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)	9896/9897 (#248133)	1401 (#223501)	11/64 in. Barrel	10000
230456	93-BS-10373-1A	Eyelet Stud, without Flange	Nickel Plated					100
230728	93-XB-10342-1A	Gypsy Stud	Nickel Plated	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)		9557 (#275580)		100
230935	93-XB-10342-2A	Gypsy Stud	Nickel Plated	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XB-10224-3A (#230891)		9557 (#275580)		1000
230918	93-XB-103934-2A	Nickel Plated, Steel Screw	Nickel Plated		169N (#275504)		3/8 in.	1000
230737	93-XB-103934-4A	Nickel Plated, Steel Screw	Nickel Plated		169N (#275504)			100
230921	93-XB-103937-2A	Nickel Plated, Steel Screw	Nickel Plated		169N (#275504)		5/8 in.	1000
230756	93-XB-103937-4A	Nickel Plated, Steel Screw	Nickel Plated		169N (#275504)		5/8 in.	100
230749	93-XB-107084-1A	Nickel Plated, Steel Screw	Nickel Plated		169N (#275504)		3/8 in.	100
230753	93-XB-107087-1A	Nickel Plated, Steel Screw	Nickel Plated		169N (#275504)		5/8 in.	100
230740	93-BS-10412-1A	Post	Nickel Plated	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	1/4 in. (H)	100
230912	93-BS-10412-2A	Post	Nickel Plated	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	1/4 in. (H)	1000
230741	93-BS-10413-1A	Post	Nickel Plated	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	5/16 in. (H)	100
230924	93-BS-10413-2A	Post	Nickel Plated	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	5/16 in. (H)	1000
230743	93-BS-10414-1A	Post	Nickel Plated	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	3/8 in. (H)	100
230926	93-BS-10414-2A	Post	Nickel Plated	93-BS-10370-1A (#230727), 93-BS-10370-2A (#230905), 93-BS-10370-1C (#230782), 93-BS-10370-2C (#230897), 93-BS-10370-3A (#230892)	9896/9897 (#248133)	1407 (#223507)	3/8 in. (H)	1000
230705	93-XB-10224-1A	Socket	Nickel Plated	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		100
230901	93-XB-10224-2A	Socket	Nickel Plated	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		1000

Item Number	Style Number	Description	Finish	For Use With	Hand Tools Part Number	Machine Tools Part Number	Size	Standard Package
230891	93-XB-10224-3A	Socket	Nickel Plated	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		10000
230838	93-XB-10231-1A	Socket	Nickel Plated	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		100
230930	93-XB-10231-2A	Socket	Nickel Plated	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#248160)	1410 (#223510)		1000
230706	93-XX-10224-1A	Socket	Nickel Plated	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		100
230917	93-XX-10224-2A	Socket	Nickel Plated	93-X2-10127-1A (#230701), 93-X2-10127-2A (#230899), 93-X2-10127-1B (#230784), 93-X2-10127-2B (#230888), 93-X2-10128-1A (#230702), 93-X2-10128-2A (#230899), 93-X2-10128-1B (#230780), 93-X2-10128-2B (#230898), 93-X2-10128-3A (#230890)	164H (#275564)	1410 (#223510)		1000
230727	93-BS-10370-1A	Stud	Nickel Plated	93-BS-10412-1A (#230740), 93-BS-10412-2A (#230912), 93-BS-10412-1C (#230783), 93-BS-10412-2C (#230895), 93-BS-10412-3A (#230893)	164H (#275564)	1412 (#223512)		100
230905	93-BS-10370-2A	Stud	Nickel Plated	93-BS-10412-1A (#230740), 93-BS-10412-2A (#230912), 93-BS-10412-1C (#230783), 93-BS-10412-2C (#230895), 93-BS-10412-3A (#230893)	164H (#275564)	1412 (#223512)		1000
230892	93-BS-10370-3A	Stud	Nickel Plated	93-BS-10412-1A (#230740), 93-BS-10412-2A (#230912), 93-BS-10412-1C (#230783), 93-BS-10412-2C (#230895), 93-BS-10412-3A (#230893)	164H (#275564)	1412 (#223512)		10000
230916	93-BS-10379-2A	Stud	Nickel Plated					1000
230744	93-BS-10379-4A	Stud	Nickel Plated					100
230738	93-XX-10388-1A	Nickel Plated, Stainless Steel Clip	Nickel Plated/Stainless Steel Clip				3/4 in. x 9/16 in.	100
230909	93-XX-10388-2A	Nickel Plated, Stainless Steel Clip	Nickel Plated/Stainless Steel Clip				3/4 in. x 9/16 in.	1000
230745	93-XX-10391-1A	Nickel Plated, Stainless Steel Clip	Nickel Plated/Stainless Steel Clip				7/8 in. x 9/16 in.	100
230934	93-X8-103015-2A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		7/16 in.	1000
230764	93-X8-103015-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		7/16 in.	100
230936	93-X8-103017-2A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		5/8 in.	1000
230766	93-X8-103017-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		5/8 in.	100

Items continue on next page.

**HARDWARE MARINE**

Item Number	Style Number	Description	Finish	For Use With	Hand Tools Part Number	Machine Tools Part Number	Size	Standard Package
230768	93-X8-103025-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		7/16 in.	100
230769	93-X8-103027-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		5/8 in.	100
230911	93-X8-103934-2A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		3/8 in.	1000
230739	93-X8-103934-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		3/8 in.	100
230923	93-X8-103937-2A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		5/8 in.	1000
230758	93-X8-103937-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		5/8 in.	100
230760	93-X8-103938-1A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw	93-XB-10224-1A (#230705), 93-XB-10224-2A (#230901), 93-XB-10224-1C (#230781), 93-XB-10224-2C (#230896), 93-XX-10224-2C (#230787), 93-XX-10224-1A (#230706), 93-XX-10224-2A (#230917), 93-XB-10224-3A (#230891)	169N (#275504)		1 in.	100
230466	93-X8-107041-1A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		3/16 in.	100
231117	93-X8-107044-1A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw					100
230850	93-X8-109344-2A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		3/8 in.	1000
230723	93-X8-109344-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		3/8 in.	100
230851	93-X8-109347-2A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw		169N (#275504)		5/8 in.	1000
230765	93-X8-109347-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/Stainless Steel Screw				5/8 in.	100
230913	93-XX-103624-2A	Nickel Plated, Steel Screw	Nickel Plated/Steel Screw		169N (#275504)		3/8 in.	1000
230713	93-XX-103624-4A	Nickel Plated, Steel Screw	Nickel Plated/Steel Screw		169N (#275504)		3/8 in.	100
230922	93-XX-103627-2A	Nickel Plated, Steel Screw	Nickel Plated/Steel Screw		169N (#275504)		5/8 in.	1000
230715	93-XX-103627-4A	Nickel Plated, Steel Screw	Nickel Plated/Steel Screw		169N (#275504)		5/8 in.	100
230501	93-XN-10135-1U	Snap Cap / Open Top Button / Pilot Hole Cap	Stainless Steel					100

## DOT® Durable™ Stainless



230665



230667



230659



230666



230667

Item Number	Style Number	Description	Material	Size	Standard Package
231008	93-XN-10616-2U	Buckle	Stainless Steel		1000
230670	93-XN-10127-1U	Cap	Stainless Steel	1/4 in. Barrel	100
231000	93-XN-10127-2U	Cap	Stainless Steel	1/4 in. Barrel	1000
230974	93-XN-10128-2U	Cap	Stainless Steel	1 1/64 in. Barrel	1000
230664	93-XN-10128-4U	Cap	Stainless Steel	1 1/64 in. Barrel	100
230676	93-ZN-10127-1U	Cap	Stainless Steel	1/4 in. Barrel	100
230665	93-ZN-10128-1U	Cap	Stainless Steel	1 1/64 in. Barrel	100
230667	93-NS-10412-1U	Post	Stainless Steel		100
230977	93-NS-10412-2U	Post	Stainless Steel		1000
230461	93-NS-10413-1U	Post	Stainless Steel	0.295 (H)	100
230687	93-ZS-10412-1U	Post	Stainless Steel	1/4 in. (H)	100
230692	93-ZS-10413-1U	Post	Stainless Steel	5/16 in. (H)	100
230659	93-XN-103934-1U	Screw Stud	Stainless Steel	3/8 in.	100
230970	93-XN-103934-2U	Screw Stud	Stainless Steel	3/8 in.	1000
230661	93-XN-103937-1U	Screw Stud	Stainless Steel	5/8 in.	100
230971	93-XN-103937-2U	Screw Stud	Stainless Steel	5/8 in.	1000
230969	93-XN-10224-2U	Socket	Stainless Steel		1000
230657	93-XN-10224-4U	Socket	Stainless Steel		100
230972	93-ZN-10224-1U	Socket	Stainless Steel		100
230973	93-ZN-10224-2U	Socket	Stainless Steel		1000
230666	93-NS-10370-1U	Stud	Stainless Steel		100
230976	93-NS-10370-2U	Stud	Stainless Steel		1000
230983	93-ZS-10370-1U	Stud	Stainless Steel		100

DOT® is a registered trademark of Scovill Fasteners, Inc. Durable™ is a trademark of Scovill Fasteners, Inc.

## Fasnap® Rib Tree Bolster Fasteners

This 3/4 inch panel fastener with ribbed shank assures easy installation and secure hold. One ribbed end is pushed into primary panel to retain clip. Second panel is pushed down onto projecting ribbed end to complete the assembly.



231085

Item Number	Description	Material	Size	Standard Package
231085	3/4 in. double end clip with inner stop 1/2 in. x 7/8 in.	Plastic	3/4 in.	100

Fasnap® is a registered trademark of The Fasnap Corporation.



## Fasnap® Fasteners

High rust and corrosion resistant button, normal action socket, stud, and eyelet. The button and eyelet are, in many instances, able to self-pierce through multiple layers of fabric. All four components are interchangeable with nickel-plated brass screw studs or other snap fasteners and tools, eliminating special die requirements.



230671



230691



230694



230696



230960

Item Number	Style Number	Description	Finish	Material	Screw Size	Size	Standard Package	Type
230960	SS4650AR	Cap		Stainless Steel		3/16-in. Barrel	1000	
230688	SSC4650AR	Cap		Stainless Steel		3/16-in. Barrel	100	
230968	SC4647D/ SS4647D	Post		Stainless Steel		1/4 in.	1000	
230696	SSC4647D	Post		Stainless Steel		1/4 in.	100	
230691	SSC4650B	Socket		Stainless Steel			100	
230963	SSC4650B/ SS4650B	Socket		Stainless Steel			1000	
230694	SSC4650C	Stud		Stainless Steel			100	
230966	SSC4650C/ SS4650C	Stud		Stainless Steel			1000	
231026	BN4647AR	Cap	Nickel Plated	Brass		3/16-in. Barrel	1000	
230767	BNSC705921	Oversized Screw Stud	Nickel Plated	Brass	#10 Screw	5/8 in.	100	5/8 in. #10 Screw
231096	BHST705916	Screw Stud	Nickel Plated	Brass	#8 Teks® Screw	1/2 in.	100	1/2-in. #8 Hardened Teks Screw
230671	BNCT705916	Screw Stud	Nickel Plated	Brass	#8 Teks® Screw	1/2 in.	100	1/2-in. #8 Teks Screw
231027	BN4647B	Socket	Nickel Plated	Brass			1000	

Fasnap® is a registered trademark of The Fasnap Corporation. Teks® is a registered trademark of Illinois Tool Works, Inc.



## DOT® Lift-The-Dot®

Featured below are styles available, complete with parts indicated. Sold only in full package lots of 100 pieces or 1000 pieces. Lift-The-Dot Fasteners are available in nickel or black oxide finish. Certain Lift-The-Dot fasteners meet Government Specification MS-27977. Strong and heavy duty, Lift-The-Dot fasteners lock on three sides and are opened by lifting the fourth side where the Dot and the Lift-The-Dot trademark appear.

Item Number	Style Number	Description	Finish	For Use On	For Use With	Hand Tools Part Number	Height	Machine Tools Part Number	Size	Standard Package
230956	90-PS-16510-29	Clear Washer		Canvas	90-XX-16205-1A (#230601), 90-XX-16205-2A (#230940), 90-XX-16205-1B (#230649), 90-XX-16205-2B (#230978), 90-BS-16506-1A (#230637), 90-BS-16506-2A (#230647), 90-BS-16506-2C (#230979)					1000
230656	90-PS-16510-49	Clear Washer		Canvas	90-XX-16205-1A (#230601), 90-XX-16205-2A (#230940), 90-XX-16205-1B (#230649), 90-XX-16205-2B (#230978), 90-BS-16506-1A (#230637), 90-BS-16506-2A (#230647), 90-BS-16506-2C (#230979)					100
230438	90-BS-16506-1C	Back Plate	Government Black							100
230979	90-BS-16506-2C	Back Plate	Government Black	Canvas	90-XX-16205-1A (#230601), 90-XX-16205-2A (#230940), 90-XX-16205-1B (#230649), 90-XX-16205-2B (#230978), 90-XX-16206-1A (#230602), 90-XX-16206-2A (#230647), 90-XX-16206-2B (#230654)			1455 (#223555)		1000
230649	90-XX-16205-1B	Socket	Government Black	Canvas	90-BS-16506-1A (#230637), 90-BS-16506-2A (#230951), 90-BS-16506-2C (#230979), 90-PS-16510-19 (#230656), 90-PS-16510-29 (#230956)			1454 (#223554)		100
230978	90-XX-16205-2B	Socket	Government Black	Canvas	90-BS-16506-1A (#230637), 90-BS-16506-2A (#230951), 90-BS-16506-2C (#230979), 90-PS-16510-19 (#230656), 90-PS-16510-29 (#230956)			1454 (#223554)		1000
230436	90-BS-16349-1B	Stud	Government Black							100
230440	90-XB-16358-1B	Stud	Government Black							100
230437	90-BS-16501-1C	Washer	Government Black							100
230439	90-BS-16509-1C	Washer	Government Black							100
230637	90-BS-16506-1A	Back Plate	Nickel Plated	Canvas	90-XX-16205-1A (#230601), 90-XX-16205-2A (#230940), 90-XX-16205-1B (#230649), 90-XX-16205-2B (#230978), 90-XX-16206-1A (#230602), 90-XX-16206-2A (#230647), 90-XX-16206-2B (#230654)					100

Items continue on next page.

HARDWARE **MARINE**

Item Number	Style Number	Description	Finish	For Use On	For Use With	Hand Tools Part Number	Height	Machine Tools Part Number	Size	Standard Package
230951	90-BS-16506-2A	Back Plate	Nickel Plated	Canvas	90-XX-16205-1A (#230601), 90-XX-16205-2A (#230940), 90-XX-16205-1B (#230649), 90-XX-16205-2B (#230978), 90-XX-16206-1A (#230602), 90-XX-16206-2A (#230647), 90-XX-16206-2B (#230654)	9940 (#275573)		1455 (#223555)		1000
230602	90-XX-16206-1A	Socket Long Prong	Nickel Plated	Canvas	90-BS-16506-1A (#230637), 90-BS-16506-2A (#230951), 90-BS-16506-2C (#230979), 90-PS-16510-19 (#230656), 90-PS-16510-29 (#230956)		0.275"	1454 (#223554)		100
230601	90-XX-16205-1A	Socket Short Prong	Nickel Plated	Canvas	90-BS-16506-1A (#230637), 90-BS-16506-2A (#230951), 90-BS-16506-2C (#230979), 90-PS-16510-19 (#230656), 90-PS-16510-29 (#230956)			1454 (#223554)		100
230940	90-XX-16205-2A	Socket	Nickel Plated	Canvas	90-BS-16506-1A (#230637), 90-BS-16506-2A (#230951), 90-BS-16506-2C (#230979), 90-PS-16510-19 (#230656), 90-PS-16510-29 (#230956)			1454 (#223554)		1000
230608	90-BS-16349-1A	Stud	Nickel Plated	Canvas	90-BS-16501-1A (#230636)	171 (#275575)				100
230610	90-XB-16358-1A	Stud	Nickel Plated	Canvas	90-BS-16509-1A (#230638), 90-BS-16509-2A (#230952), 90-BS-16509-2C (#230652)	9940 (#275573)		1456 (#223556)		100
230944	90-XB-16358-2A	Stud	Nickel Plated	Canvas	90-BS-16509-1A (#230638), 90-BS-16509-2A (#230952), 90-BS-16509-2C (#230652)	9940 (#275573)		1456 (#223556)		1000
231120	90-XB-16368-1A	Stud	Nickel Plated	Canvas, Metal, Plastic	90-XX-16205-1A (#230601), 90-XX-16205-2A (#230940), 90-XX-16205-1B (#230649), 90-XX-16205-2B (#230978), 90-XX-16206-1A (#230602), 90-XX-16206-2A (#230647), 90-XX-16206-2B (#230654)	9940 (#275573)				100
230636	90-BS-16501-1A	Washer	Nickel Plated	Canvas	90-BS-16349-1A (#230608)			8042 (#275480)		100
230638	90-BS-16509-1A	Washer	Nickel Plated	Canvas	90-XB-16358-1A (#230610), 90-XB-16358-2A (#230944), 90-XB-16358-2B (#230651)			1457 (#223557)		100
230952	90-BS-16509-2A	Washer	Nickel Plated	Canvas	90-XB-16358-1A (#230610), 90-XB-16358-2A (#230944), 90-XB-16358-2B (#230651)			1457 (#223557)		1000
230618	90-XB-163624-1A	Screw Stud	Nickel Plated/ Brass Screw	Metal		169B (#275502)			3/8 in.	100
230630	90-X8-16376-1A	Nickel Plated, Stainless Steel Clip	Nickel Plated/ Stainless Steel Clip						3/4 in.	100
230624	90-X8-163604-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/ Stainless Steel Screw	Wood		169B (#275502)			3/8 in.	100
230620	90-X8-163606-4A	Nickel Plated, Stainless Steel Screw	Nickel Plated/ Stainless Steel Screw	Wood, Metal, Plastic		169B (#275502)			1/2 in.	100
231125	90-X8-163607-1A	Nickel Plated, Stainless Steel Screw	Nickel Plated/ Stainless Steel Screw	Metal, Plastic		169B (#275502)			5/8 in.	100

DOT® and Lift-The-Dot® are registered trademarks of Scovill Fasteners, Inc.

## DOT® Pull-The-Dot®

The Pull-The-Dot Fastener is a side-locking snap fastener, similar to the Durable™ Glove-style fastener, except for its “built-in” locking feature. This fastener will withstand extreme pressure on three sides without unlocking, yet will release instantly on the fourth side if one “pulls the dot” embossed on one side of the button. Pull-The-Dots have no sharp edges or protrusions to tear or mar the fabric to be fastened.

Since the socket opens only on one side, care must be taken that the button and socket are set so that the fastener can be opened at the desired position.



230800



230801



230802



230803

Item Number	Style Number	Description	Finish	Hand Tools Part Number	Standard Package
230819	92-XE-18100-A2B	Cap	Government Black		1000
230454	92-XE-18103-A1B	Cap	Government Black		100
230842	92-XX-18201-2C	Socket	Government Black		1000
230799	92-BS-18303-2C	Stud	Government Black		1000
230803	92-X8-183074-1A	Stud	Nickel Plated, Stainless Steel Screw	169N (#275504)	100
230800	92-XE-18100-A1A	Cap	Nickel		100
230820	92-XE-18100-A2A	Cap	Nickel		1000
230453	92-XE-18103-A1A	Cap	Nickel		100
230801	92-XX-18201-1A	Socket	Nickel		100
230821	92-XX-18201-2A	Socket	Nickel		1000
230802	92-BS-18303-1A	Stud	Nickel		100
230822	92-BS-18303-2A	Stud	Nickel		1000

DOT® and Pull-The-Dot® are registered trademarks of Scovill Fasteners, Inc. Durable™ is a trademark of Scovill Fasteners, Inc.

## DOT® Gripper®

Setting the standard in safety and performance for more than 75 years, Gripper Snap Fasteners are available in an open prong type cap.

Item Number	Style Number	Description	Material	Standard Package
230485	96-NS-90338-1U	Duo Stud	Stainless Steel	100
230486	96-NS-90945-1U	Prong Ring	Stainless Steel	100
230484	96-NS-90238-1U	Socket	Stainless Steel	100

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## Q-Snap® Fasteners



231161



231156



231147



231164



231163



231160

The patented Q-Snap system is similar to the standard press-fastener, with the exception of two additional parts: a ring underneath the cloth and a hook on the deck. This combination turns the fastener into a secured connection that won't pop loose, while incorporating a stretch-function that acts as a lever. The result allows you to easily overcome the cloth tension as you fit the fastener.

Installation is like a normal press fastener, but with special tools that make it faster than other secured fasteners. There are no extra parts, thanks to smart pre-assembly.

Resistant to seawater, Q-Snap is made from high quality 316 stainless steel. The special ring spring in the socket is dimensionally stable and even more resistant to corrosion than 316 stainless steel. A thin rubber layer isolates the Q-stud to prevent tension corrosion. Above all, it is the only secured fastener without moving parts, making it very durable and robust.

Developed for covers and sprayhoods on boats, Q-Snap is an ideal solution for any application that requires textiles to be tight and secure.

Starter Kit includes: 50 Q-Caps, 50 Q-Sockets, 25 Q-Studs (including screw), 25 Q-Studs, 25 screws, 25 M4 bolts, 25 self-drilling screws, 25 eyelets, 5 blind rivets, Q-Stud holder, Q-Stud marker, 5 Q-Installation pins, 5 Q-Stud covers, hand punch set, 25 ringlets and 25 plugs.

DIY Pack includes: 10 polished Q-Caps, 10 Q-Sockets, Q-Studs with screws and hand punch tool.

Item Number	Style Number	Description	Color	Material	Size	Standard Package
231161	150000-10	DIY Pack				1
231155	141300-100	Fixing Blind Rivet		Stainless Steel Type 304	0.464 in. (H), Mandrel Head and Rivet Pin	100
231156	140500-100	Fixing Eyelet		Stainless Steel Type 316		100
231153	140200-100	Fixing M4 Bolt		Stainless Steel Type 316		100
231152	140100-100	Fixing Tapping Screw		Stainless Steel Type 316		100
231142	110002-100	Q-Cap	Black Matte	Stainless Steel Type 316	Normal Shaft 4mm	100
231141	110001-100	Q-Cap	Black	Stainless Steel Type 316	Normal Shaft 4mm	100
231147	110007-100	Q-Cap	Bordeaux Red	Stainless Steel Type 316	Normal Shaft 4mm	100
231144	110004-100	Q-Cap	Grey	Stainless Steel Type 316	Normal Shaft 4mm	100
231145	110005-100	Q-Cap	Khaki	Stainless Steel Type 316	Normal Shaft 4mm	100
231146	110006-100	Q-Cap	Navy Blue	Stainless Steel Type 316	Normal Shaft 4mm	100
231143	110003-100	Q-Cap	Pearl White	Stainless Steel Type 316	Normal Shaft 4mm	100
231148	110100-100	Q-Cap	Polished	Stainless Steel Type 316	Long Shaft 6.2mm	100
231140	110000-100	Q-Cap	Polished	Stainless Steel Type 316	Normal Shaft 4mm	100
231164	190400-10	Q-Installation Pin				10
231165	190400-25	Q-Installation Pin				25
231149	120000-100	Q-Socket Integrated Socket and Ring		Stainless Steel Type 316		100
231166	190100-10	Q-Stud Cover	Grey			10
231167	190101-10	Q-Stud Cover	Off-White			10
231162	190200-1	Q-Stud Holder				1
231163	190300-1	Q-Stud Marker				1
231151	130100-100	Q-Stud with Tapping Screw		Stainless Steel Type 316		100
231150	130000-100	Q-Stud		Stainless Steel Type 316		100
231160	150000-1	Starter Kit				1

Q-Snap® is a registered trademark of Partnership Twello B.V.

## CAF-COMPO Screw-Studs



231179

CAF-COMPO screw studs are for use in fiberglass, wood, and other composites. It is made from UV-stabilized, glass fiber-reinforced, thermoplastic. Available in four colors, the composite screw stud is made to match any standard boat color and its unique design fits any regular ring spring socket. Tested to hold 500 N of force, it delivers better performance and a stronger hold. 100% corrosion free and UV resistant, it is built for tough marine conditions. The lightweight piece of marine hardware is safe and quick to install. Use wherever a composite marine fastener is needed.

Item Number	Description	Color	Size	Standard Package
231169	Self-tapping	White	16 mm	100
231170	Self-tapping	Cream	16 mm	100
231171	Self-tapping	Grey	16 mm	100
231172	Self-tapping	Black	16 mm	100
231173	Self-tapping	White	10 mm	100
231174	Self-tapping	Cream	10 mm	100
231175	Self-tapping	Grey	10 mm	100
231176	Self-tapping	Black	10 mm	100
231177	Machine threaded	White	M6 10 mm	100
231178	Machine threaded	Cream	M6 10 mm	100
231179	Machine threaded	Grey	M6 10 mm	100
231180	Machine threaded	Black	M6 10 mm	100



231014

## Snapfast® System

The Snapfast fastening system offers an alternative to traditional all-metal directional fasteners. This non-corrosive directional fastening system has no moving parts and unlocks from one direction only. The sockets and studs are manufactured from heavy-duty polyacetal with a UV stabilizer. Snapfast's stainless steel pronged cap self-pierces most industrial fabrics and installs easily using hand tools.



231016

Item Number	Style Number	Description	Color	Standard Package
231016	SNPFSTA	Pronged Cap		100
231014	SNPTSTB	Socket	Black	100
231046	SNPFSTBW	Socket	White	100

Snapfast® is a registered trademark of The FASNAP Corporation.

## Stayput™ Fasteners

"Stayput" for a secure and corrosion free fastening solution. Stayput canvas fasteners have no springs to corrode or jam. They are manufactured from UV stabilized nylon and acetyl compounds. Originally designed for the marine market, are now used extensively in all areas of fabric fastening.



289264



289270

Item Number	Style Number	Description	Color	Standard Package
289264	87B	Attach Knob	Black	100
289265	86W	Attach Knob	White	100
289276	40W	Canvas to Canvas Double	White	100
289266	37B	Horizontal Single	Black	100
289268	37W	Horizontal Single	White	100

Items continue on next page.



289281



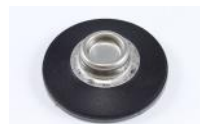
289284

Item Number	Style Number	Description	Color	Standard Package
289281	50B	Tent Wall Hook	Black	100
289280	50W	Tent Wall Hook	White	100
289262	48B	Tent Wall J-Hook	Black	100
289263	48W	Tent Wall J-Hook	White	100
289292	71W	Ultimate Clip Back	White	100
289284	70B	Ultimate Shock Cord Clip	Black	100
289283	70W	Ultimate Shock Cord Clip	White	100
289270	34B	Vertical Single	Black	100
289272	34W	Vertical Single	White	100

Stayput™ is a trademark of Stayput Fasteners.



231065



231077

## YKK® SNAD® Pressure Sensitive Fasteners

The YKK® SNAD® fastener is a durable, innovative snap fastener that attaches to various substrates and surfaces using a sophisticated and proven adhesive. This eliminates having to drill holes in surfaces to mount the fastener.

Item Number	Style Number	Description	Color	Diameter	Size	Standard Package
231071	PG1-0000-A01	Domed Socket	Black	1-9/16 in.	40 mm	100
231068	PG1-0000-839	Domed Socket	White	1-9/16 in.	40 mm	100
231065	PG3-0000-A01	Domed Stud	Black	1-9/16 in.	40 mm	100
231108	QW9-0000-A01	Domed Stud	Black	1 in.	25 mm	100
231069	PG3-0000-839	Domed Stud	White	1-9/16 in.	40 mm	100
231107	QW9-0000-839	Domed Stud	White	1 in.	25 mm	100
231078	TR5-0000-TVO	Domed Socket	Clear	1 in.	25 mm	100
231077	QL7-0000-QK1	Flexible Base Stud	Black	1 in.	25 mm	100
231079	TT5-0000-TVO	Flexible Base Stud	Clear	1-9/16 in.	40 mm	100
231076	TP9-0000-TVO	Flexible Base Stud	Clear	1 in.	25 mm	100
231075	QL7-0000-PX7	Flexible Base Stud	Gray	1 in.	25 mm	100
231073	QL7-0000-QP3	Flexible Base Stud	White	1 in.	25 mm	100

YKK® and SNAD® are registered trademarks of YKK Corporation in Japan and other countries/regions.



284050

## Boat Top Fittings – Aluminum – Pontoon Deck Hinge

90° aluminum deck hinge designed for use on pontoon boats with 1 inch square aluminum tubing. Made from 6063-T6 extruded aluminum with satin anodization for uniform finish. Requires a 1/4 inch diameter pull pin.

Item Number	Style Number	Material	Standard Package
284050	BH76	Aluminum	10



287647

## Boat Top Fittings – Aluminum – Pontoon Jaw Slide

Designed for use on pontoon boats with 1 inch square aluminum tubing. Made from 6063T6 extruded aluminum with satin anodization for uniform finish. A 1/4 – 20 x 5/16 inch stainless steel socket set screw, a 1/4 – 20 stainless steel hex head shoulder bolt and a Nylok® hex nut are included.

Item Number	Style Number	Bolt Size	For	Screw Size	Standard Package
287647	BH74	1/4"-20 hex head shoulder bolt; Nylok hex nut	1 in. square tube	1/4"-20 x 5/16" socket set screw	10

Nylok® is a registered trademark of Nylok, LLC.



287640

## Boat Top Fittings – Aluminum – Pontoon H Bracket

Designed for use on pontoon boats with 1-1/4 inch square aluminum tubing. Includes bolt and nut.

Item Number	Style Number	Description	For	Standard Package
287640	34440078	Standard Thin Wall	1-1/4 in. square tube	10
287642	34440077	Tall	1-1/4 in. square tube	10

## Tubing – Marine – Aluminum

This bright dip anodized, drawn aluminum tubing is ideal. Ordering less than full carton is not recommended.

Item Number	Style Number	Description	Length	Outside Diameter	Standard Package	Wall	Weight	Weight Per Carton	Weight Per Foot
275719	6111-18	Round	24 ft.	7/8 in.	432	0.065 in.		92 lbs.	0.2100 lbs.
275701		Round	20 ft.	7/8 in.	1 piece	0.065 in.	4 lbs.		
275718	6154	Square	24 ft.	1 in.	24	0.062 in.		178 lbs.	0.2650 lbs.

## Bimini Bow Frames



205381

Bow Bimini top kit (minus fabric). Comes in ready-to-assemble kit form. Packaged one boat set per box with hardware. Made with 7/8 in. outside diameter by 0.058 wall 6063, T832 hard drawn marine aluminum tubing with a brite anodized finish and joined together with inside sleeves. The radius of the bends is 6 in. inside diameter.

### 2-Bow Contents:

- 4 x Eye End - Chrome plated, zinc die-cast, 7/8-inch OD tubing (#282184)
- 2 x Jaw Slide - Chrome plated, zinc die-cast, 7/8-inch OD tubing (#287881)
- 2 x Deck Hinge - Chrome plated, zinc die-cast (#284084)
- 2 x Eye Strap - Chrome plated, zinc die-cast (#287890)
- 4 x Adjuster Buckle - Stainless steel type 304, single bar, 1-inch (#207620)
- 2 x Spring Snap - Zinc plated, steel wire snap, 1-inch (#266741)

### 3-Bow Contents:

- 6 x Eye End - Chrome plated, zinc die-cast, 7/8-inch OD tubing (#282184)
- 4 x Jaw Slide - Chrome plated, zinc die-cast, 7/8-inch OD tubing (#287881)
- 2 x Deck Hinge - Chrome plated, zinc die-cast (#284084)
- 4 x Eye Strap - Chrome plated, zinc die-cast (#287890)
- 6 x Adjuster Buckle - Stainless steel type 304, single bar, 1-inch (#207620)
- 4 x Spring Snap - Zinc plated, steel wire snap, 1-inch (#266741)

Item Number	Style Number	Description	Standard Package	Width
205381	4850D	2 Bow Frame	1	80"
205382	4851D	3 Bow Frame	1	96"



## Bow Slats – Fiberglass

These fiberglass bow slats have a slightly rounded edge, which reduces splinters and prevents damage to fabricated products like boat covers.

Item Number	Color	Length	Standard Package	Width
266361	Natural	6 ft.	10	1.75 in
266362	Natural	6-1/2 ft.	10	1.75 in
266363	Natural	7 ft.	10	1.75 in
266364	Natural	8 ft.	10	1.75 in
266365	Natural	10 ft.	10	1.75 in



286199

## Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Coaming Side Plate

For use on side of boat when regular hinge cannot be mounted on deck. Furnished with 1/4 inch – 28 x 3/4 inch stainless steel hinge bolt.

Item Number	Style Number	Bolt Size	Compatible with	Standard Package
286199	898-1839	1/4"-28 x 3/4" hinge bolt	#10 screws	10



282177

## Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Slip-Fit Eye End

With stainless steel set screw.

Item Number	Style Number	For	Number Of Set Screws	Screw Size	Standard Package
282177	824	7/8 in. OD tubing, 1/2 in. ID pipe	1	1/4"-28 pointed set screw	10
282184	824-1843	7/8 in. OD tubing, 1/2 in. ID pipe	1	1/4"-28 pointed set screw	10
282183	833A-1842	3/4 in. OD tubing, 5/8 in. ID pipe	1	1/4"-28 pointed set screw	10



282183

## Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Eye Strap



287890

Item Number	Style Number	Standard Package	Thickness
287890	8816	10	3/16 in.



284088

## Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Angle Hinge

10° angle, with stainless steel screw.

Item Number	Style Number	Projection	Screw Size	Standard Package
284088	887-1841	1 in.	1/4"-20	10



284084

## Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Deck Mounting Hinge

Furnished with stainless steel machine screw.

Item Number	Style Number	Projection	Screw Size	Standard Package
284084	878 HD	1-1/16 in.	1/4"-20	10



287687



287881

## Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Jaw Slide

Equipped with stainless steel set screw and machine screw.



287691

Item Number	Style Number	For	Screw Size	Standard Package
287686	865	3/4 in. OD tube	1/4"-20	10
287687	856-1838	7/8 in. OD tube	1/4"-20	10
287691	856 HD	7/8 in. OD tube	1/4"-20	10
287881	86004	7/8 in. OD tube	1/4"-20	10



287839

## Boat Top Fittings – Chrome-Plated Zinc Die-Cast – Boat Cover Socket

Ideal to keep boat covers from sagging. Use with Trivantage® Fiberglass Bow Slats to support boat cover. Two screw holes drilled for No. 8 screw.

Item Number	Style Number	Size	Standard Package
287840	740-CR180	3/8 in. height, 1-3/4 in. x 3/8 in. opening, 3-3/8 in. x 3/4 in. base	10
287839	840	1/2 in. height, 1-3/4 in. x 3/8 in. opening, 3-3/8 in. x 7/8 in. base	10

Trivantage® is a registered trademark of Glen Raven, Inc.



207608

## Boat Top Fittings – Nickel-Plated Brass – Adjuster Buckle

Single bar buckle to adjust strap.

Item Number	Style Number	Standard Package	Webbing Size
207608	100	100	1 in.



287872

## Boat Top Fittings – Nickel-Plated Brass – Eye Strap

Style No. 2816 Eye Strap is for fastening No. 142-A Snap Hook to deck. Style No. 2916 Eye Strap is for fastening No. 249-0 Snap Hook to deck.

Item Number	Style Number	Standard Package	Thickness
287870	2816	10	3/16 in.
287872	2916	10	1/8 in.



266682

## Boat Top Fittings – Nickel-Plated Brass – Solid Eye Snap Hook

Item Number	Style Number	Description	Length	Standard Package	Webbing Size
266682	249B-0		2-1/8 in.	10	
266684	248B-0	Square Eye		10	1 in.



266684

266682 - For use with 2916 Eye Strap.



289639

## Boat Top Fittings – Nylon – Bimini Top Ladder Clip

Item Number	Style Number	Color	Size	Standard Package
289599	4330	Black	1 in.	10
289639	4330	Black	7/8 in.	10
289640	4330W	White	1 in.	10
289598	4330W	White	7/8 in.	10



289607

## Boat Top Fittings – Nylon – Rigid Support Clip

Item Number	Style Number	Color	Size	Standard Package
289607	21463	Black	7/8 in.	1



289608

## Boat Top Fittings – Nylon – Vadney Clip

Used for putting screw studs on a windshield of a boat.

Item Number	Style Number	Color	Standard Package
289608	1178120	Black	10

## Boat Top Fittings – Nylon – Eye End



289202

Item Number	Style Number	Description	Color	For	Screw Size	Standard Package
289202	7416	Outside Eye End	White	3/4 in. OD tube		10
289203	7417	Insert Eye End	White	7/8 in. OD tube		10
289204	7419	Outside Eye End	White	7/8 in. OD tube	1/4"-20	10
289251	7402	Insert Eye End	Black	3/4 in. OD tube		10
289252	7416	Outside Eye End	Black	3/4 in. OD tube	1/4"-20	10
289253	7417	Insert Eye End	Black	7/8 in. OD tube		10
289254	7419	Outside Eye End	Black	7/8 in. OD tube	1/4"-20	10
289255	7419	Outside Eye End	Natural	7/8 in. OD tube		10

## Boat Top Fittings – Nylon – Eye Strap



289592

Item Number	Style Number	Color	Standard Package	Thickness
289591	7407	White	1	1/4 in.
289592	7407	Black	10	1/4 in.

## Boat Top Fittings – Nylon – Wedge

Converts 90° deck hinges to angle hinges. Install between deck hinge and deck.



289088



289091

Item Number	Style Number	Description	Color	Standard Package
289088	401-3SB	Base Angle Oval Polywedge – 10°	Black	10
289092	401-3SN	Base Angle Oval Polywedge – 10°	Natural	10
289091	7530B	Base Angle Rectangular Wedge – 9°	Black	10
289090	7530N	Base Angle Rectangular Wedge – 9°	Natural	10

## Boat Top Fittings – Nylon – Curved Shim



289097

Item Number	Style Number	Color	Diameter	Standard Package
289097	401-S-2.36B	Black	2.36 in.	10
289098	401-S-2.36	Silver	2.36 in.	10

## Boat Top Fittings – Nylon – Hinge



289302



289430

Item Number	Style Number	Description	Color	Height	Length	Screw Size	Size	Standard Package	Weight	Width
289342	7443B	Concave Hinge Rail for 7/8 in. Tubing	Black	1-1/2 in.	2-1/2 in.	1/4"-20	7/8 in.	10		1-3/5 in.
289430	7424P	Knurl Screw	Black			1/4"-20 x 7/8	1/4 in. - 20 x 7/8 in.	10		
289352	7405	Large Deck Hinge	Black	1-3/8 in.	2-3/4 in.	1/4"-20		10	0.038 lb.	3/4 in.
289302	7405	Large Deck Hinge	White			1/4"-20		10		
289351	7401	Small Deck Hinge	Black	1 in.	2-3/4 in.	1/4"-20		10	0.034 lb.	1-1/8 in.

## Boat Top Fittings – Nylon – Jaw Slide



289454



289458

Item Number	Style Number	Color	For	Standard Package
289451	7406	White	3/4 in. OD Tubing	10
289452	7418	White	7/8 in. OD Tubing	10
289453	7406	Black	3/4 in. OD Tubing	10
289454	7418B	Black	7/8 in. OD Tubing	10
289458	7515	Black	1 in. Square Tubing	10

## Boat Top Fittings – Nylon – Lashing Hook



289362

Item Number	Style Number	Color	Standard Package
289360	7420	White	10
289362	7420	Black	10
289394	7460B	Black	10

## Boat Top Fittings – Nylon – Double Wing Windshield Latch



289460

Item Number	Style Number	Color	Standard Package
289460	7222B	Black	10

## Boat Top Fittings – Nylon – Bow Socket



289610

Item Number	Style Number	Color	Standard Package
289610	7434	Black	10

## Boat Top Fittings – Nylon – Side Curtain Spacer



289618

Designed to keep clear vinyl side curtains away from convertible top frames. Eliminates scratching and discoloration of vinyl curtains. Snaps over a 7/8 inch or 1 inch outside diameter tube. No tools required for assembly.

Item Number	Style Number	Description	Color	For	Standard Package
289618	7628	Single Spacer	White	7/8 in. OD tube	10
289619	7629	Single Spacer	White	1 in. OD tube	10



289402

## Boat Top Fittings – Nylon – Mounting Plate

Item Number	Style Number	Description	Color	Height	Length	Screw Size	Standard Package	Width
289402	7415	Slide Mount Plate – 2-Hole	Black	4/5 in.	2-1/2 in.	1/4" -20	10	1-1/2 in.



289089

## Boat Top Fittings – Rubber Gasket

Item Number	Style Number	Color	Standard Package
289089	401-GB	Black	10



289505

## Slide Track – Nylon – Slides

Item Number	Style Number	Description	Color	Standard Package
289505	7408	Slide for Deck Hinge	Natural	10
289553	7430	Side Mount Slide	Black	10



289102

## Slide Track – Nylon – Slide Cap

Item Number	Style Number	Description	Color	Standard Package
289102	7404	Slide Cap Channel Trim End Cap	Black	10
289153	7429	Slide Cap Channel Trim End Insert	Black	10



289371

## Slide Track – Nylon – Slide Lock

Item Number	Style Number	Description	Color	Standard Package
289371	7432	Slide Lock	Black	10



289354

## Slide Track – Nylon – Hinge

Item Number	Style Number	Description	Color	Standard Package
289354	7431	Deck Hinge/Slide Combination	Black	10

## Tele-Sun Shade Poles



205432

The Tele-Sun Shade Pole is a premium product that allows boaters to escape from the sun's UV rays while on their boat. Built to handle harsh marine conditions, these top-of-the-line shade poles are made from UV-protected carbon fiber. The poles are easy to install and stow for effortless boat shade. Simply place the poles in the boat's rod holders, secure the shade fabric to the boat top, attach the fabric connector to the poles, and extend the poles into position. It can be mounted to the front or rear of the boat, depending on preference. Create custom, removable marine shade with Tele-Sun Shade Poles. 1 each is 1 pair (2 poles).

Note: Shade Pole (#204533) is not compatible with the Flush Mount Rod Holder (#205431).

Item Number	Style Number	Description	Color	Material	Size	Standard Package
205431	F31-0702BXY	Flush Mount Rod Holder		Aluminum	Flange width: 3-1/2 in., Tube: 5-1/2 in., Angle: 10°.	1
205432	T10-7005CF	Shade Pole with Carrying Bag	Black	Carbon Fiber	52 in. to 80 in.	1 Pair
205433	T10-7001VEL	Shade Pole with Carrying Bag	Silver	Aluminum	44 in. to 69 in.	1 Pair

## Carbiepoles® Shade Poles



205440

Carbiepoles, carbon fiber shade poles are telescoping, light weight and durable making them ideal for boaters to add shade to their boat while anchored or for home patio use. Carbiepoles are adjustable from 68"-88" and will fit in all rod holders. Easy to store and maintain, Carbiepoles are a great choice for customers looking to cool down at home or on the water. Includes a one year limited warranty on carbon fiber poles.

Note: 1.5 in. poles are recommended for 50 sq. ft. or less. Anything over 50 sq. ft. must use a 2 in. pole.

<b>Warranty</b>	1-Year Limited
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Item Number	Description	Color	Diameter	Height	Material	Size	Standard Package
205449	Coverplate for Mounting Base for 1.5 in Poles			0.25 in.	Stainless Steel Type 316		1
205437	Coverplate for Mounting Base for 2 in. Poles			0.25 in.	Stainless Steel Type 316		1
205438	Oval Base Plate for 2 in. Poles					12" (L) x 8" (W) x 8" (H)	1
205448	Separating Mounting Base for 1.5 in. Poles			0.25 in.	Stainless Steel Type 316		1
205436	Separating Mounting Base for 2 in. Poles			0.25 in.	Stainless Steel Type 316		1
205442	Shade Pole with Bag	Blue	1.5 in.		Carbon Fiber	68 in. to 92 in.	1 Pair
205435	Shade Pole with Bag	Black	2 in.		Carbon Fiber	72 in. to 108 in.	1 Pair
205444	Shade Pole with Bag	Red	1.5 in.		Carbon Fiber	68 in. to 92 in.	1 Pair
205440	Shade Pole with Bag	Black	1.5 in.		Carbon Fiber	68 in. to 92 in.	1 Pair
205443	Shade Pole with Bag	Silver	1.5 in.		Carbon Fiber	68 in. to 92 in.	1 Pair
205441	Shade Pole with Bag	White	1.5 in.		Carbon Fiber	68 in. to 92 in.	1 Pair

Carbiepoles® is a registered trademark of AMC Pole Corporation.

## Carbiepoles® Shade Buckles



205447



205447

The Carbiepoles Shade Buckle is designed for shade and boat cover attachment. Consists of a stainless steel buckle, stud/button and a Delrin® pipe adapter.

Item Number	Height	Standard Package
205447	0.25 in.	1

Carbiepoles® is a registered trademark of AMC Pole Corporation. Delrin® is a registered trademark of E.I. DuPont de Nemours and Company, Inc.



154700

## Mooring Pole – Aluminum “Thumb Screw”

Designed especially for boat mooring covers, the 730 Mooring Pole adjusts to 70 in. overall and collapsed measures 40-5/8 inch. Has 2-1/2 inch long swaged tip designed for No. 3 Grommet or larger. Top section is 3/4 inch O.D. x .049 wall and bottom section is 7/8 inch O.D. x .042 wall, mill finish, drawn 6063T832 aluminum tubing. Comes with crutch tip bottom to prevent marring of boat floor.

Item Number	Style Number	Maximum Extension	Standard Package
154700	730	5 ft. 10 in.	20
205455		7 ft. 11 in.	20



205454

## Mooring Pole – Aluminum Extension

A medium range, multi-purpose support pole with interchangeable end components. Simply turn the pole extension around for a choice of either plastic injection molded end with snap stud or a molded swaged tip. Includes jointer section, adjuster screw and stainless steel internal spring button stop.

Item Number	Style Number	Description	Extension Bar Threaded	Standard Package
205453	4848B	Thumb Screw with Black Rubber Foot Swaged Tip and Stud Tip	48 in. to 96 in.	25
205454	3636B	Thumb Screw with Black Rubber Foot Swaged Tip and Stud Tip	40 in. to 70 in.	25
205458	3636W	Thumb Screw with White Rubber Foot Swaged Tip and Stud Tip	40 in. to 70 in.	25
205467	X56A-2TIP	Cam Lock Snap with Swedge Tip	34 in. to 56 in.	50



205452

## Support Pole – Aluminum Extension

A medium range, multi-purpose support pole with interchangeable end components. Simply turn the pole extension around for a choice of either plastic injection molded end with snap stud or a molded swaged tip.

Item Number	Style Number	Size	Standard Package
205452	X47A-2TIP	47 in.	50
205457	X59A-2TIP	59 in.	50
205459	X70A-2TIP	70 in.	50

## Flex Support – Rubber

This Flex Support is an easy way to support a cover if venting is not required. The rubber sides are designed to “mushroom” down to match the angle of the cover, distributing the weight and protecting it from rips or tears.

Designed to be sewn directly into the cover. This will help keep Flex Support in position for an easy, fixed location to tent the cover.

Item Number	Standard Package
205462	100



## Nylon Pole Fittings



Item Number	Style Number	Description	Color	Size	Standard Package
289180	7623	Jointer Section	Black	3/4 in. - 7/8 in.	10
289185	7521B	Jointer Section	Black	7/8 in. - 1 in.	1
289183	7621	Pole End with Stainless Steel Cap	Black	3/4 in.	1
289180	7610B	Pole Tip	Black	7/8 in.	1
289181	7619	Vinyl Foot	Black	3/4 in.	1
289182	7620	Vinyl Foot	Black	7/8 in.	10

## Nylon Pole Pads



Non-slip base pole pad. Only works with only works specific Support Poles (#205452, #205457, #205459).

Item Number	Description	Size	Standard Package
205460	Adjustable	7/8 in.	50

## Boat Top Fittings – Stainless Steel Type 304 – Adjuster Buckle



Item Number	Style Number	Description	Height	Length	Standard Package	Webbing Size	Width
207620	300	Adjuster Buckle Single Bar	1/5 in.	1-1/5 in.	10	1 in.	1-1/5 in.

## Boat Top Fittings – Stainless Steel Type 304 – Dee Ring



Item Number	Style Number	Description	Height	Inside Diameter	Size	Standard Package	Wire Diameter	Width
260457	4520SS	Welded			1 in.	10		
284235	SS-563-1	Welded	0.75 in. (inside height)	1 in.	1 in.	10	0.135 in.	7/8 in.

## Boat Top Fittings – Stainless Steel Type 303 – Pull Pin

Pull pin with 3/16 inch diameter pin, 1-3/8 inch pin length, 1 inch inner ring handle, and 2-5/16 inch overall length.

Item Number	Standard Package
284044	10



284060

## Boat Top Fittings – Stainless Steel Type 304 – Lift Ring

Item Number	Style Number	Description	Standard Package
284060	F16-1812	Flush Mount Lift Ring	10



263930

## Boat Top Fittings – Stainless Steel Type 304 – Hinge/Set Screw

Item Number	Description	Screw Size	Size	Standard Package	Threaded For Size
263930	Cup Point Set Screw 3/16 in.	1/4" -28 x 3/16	3/16 in.	10	1/4 - 28
263914	Machine Screw for #356/357 Jaw Slides			10	1/4 - 20



263914



266683

## Boat Top Fittings – Stainless Steel Type 304 – Snap Hook

Item Number	Style Number	Description	Length	Standard Package	Webbing Size
266683	990SS	Steel Wire Snap	2-1/8 in.	25	1 in.



284217



284220



284218



284221

## Boat Top Fittings – Stainless Steel Type 304 – Quick Release Pin

Item Number	Style Number	Description	Standard Package
284217	88546	Quick Release Pin (1/4 in. diameter, 7/8 in. grip)	10
284218	88547	Quick Release Pin (1/4 in. diameter, 7/8 in. grip) w/Tab and 6" Nylon-Coated Stainless Steel Cable	10
284220	88551	Quick Release Pin (1/4 in. diameter, 1 in. grip) w/DCAM-S Ring	10
284221	88548	Quick Release Pin (1/4 in. diameter, 3/4 in. grip) w/DCAM-S Ring and 6" Nylon-Coated Cable	10



282132



282133



282172



282173



284257

## Boat Top Fittings – Stainless Steel Type 316 – Eye End

Item Number	Style Number	Description	For	Screw Size	Standard Package
282172	324	Eye End	7/8 in. OD tube		10
282132	324-88313	Eye End	7/8 in. OD tube		10
282173	338	Eye End	1 in. OD tube		10
282133	338-88314	Eye End	1 in. OD tube		10
284257	88328	Eye End with Double Set Screw	1-1/4 in. OD tube	1/4"-28 pointed set screw	10



282210



282214



282211

## Boat Top Fittings – Stainless Steel Type 316 – Ball Eye End

Item Number	Style Number	Description	For	Standard Package
282209	F11-0177A	Ball Eye End For Pop Rivet	7/8 in. OD tube	10
282210	F11-0177S	Ball Eye End For Set Screw	7/8 in. OD tube	10
282211	F11-0180S	Ball Eye End – 90°	7/8 in. OD tube	10
282214	F12-0181S	Ball Eye End	1 in. OD tube	10



282171



282175

## Boat Top Fittings – Stainless Steel Type 316 – Counter Bore Eye End

Item Number	Style Number	Description	For	Standard Package
282171	324	Counter Bore Eye End without Set Screw	7/8 in. OD tube	10
282175	333	Counter Bore Eye End without Set Screw	3/4 in. OD tube	10



282140



282179



282176



282187

## Boat Top Fittings – Stainless Steel Type 316 – Humpback Eye End

Item Number	Style Number	Description	Bolt Size	For	Screw Size	Standard Package
282176	324	Humpback Eye End		7/8 in. OD tube		10
282179	338	Humpback Eye End		1 in. OD tube		10
282187	8208	Humpback Eye End with 2 Double Set Screws	1/4 in.	1-1/4 in. OD tube	1/4"-28 pointed set screw	10
282139	88396	Humpback Eye End with Double Set Screw	1/4 in.	7/8 in. OD tube	1/4"-28 pointed set screw	10
282140	88397	Humpback Eye End with Double Set Screw	1/4 in.	1 in. OD tube	1/4"-28 pointed set screw	10

## Boat Top Fittings – Stainless Steel Type 316 – Eye Strap



Item Number	Style Number	Description	Drilled For	Height	Length	Standard Package	Thickness
287875	3816	Eye Strap	0.208/0.198 in. Hole, 82° countersink			10	3/16 in.
284276	88545	Eye Strap	#10 screw	5/8 in.	1-7/8 in.	25	1/8 in.
284216	88542	Formed Eye Strap	#8 screw	1/2 in.	1-7/8 in.	10	3/16 in.
287874	3716	Heavy Duty Eye Strap	0.200 in. Hole			10	3/16 in.

## Boat Top Fittings – Stainless Steel Type 316 – Grab Handles



284262

For use with 7/8" stainless steel tubing. Comes packaged with 2 handles per package.

Item Number	Style Number	Description	For	Standard Package
284262	9114665	Bimini/Dodger Adjustable Grab Handles	7/8 in. tubing	Pack of 2

## Boat Top Fittings - Stainless Steel Type 316 - Hinge/Set Screw

Item Number	Style Number	Description	Screw Size	Size	Standard Package	Threaded For Size
284282	88338	Cone Point Allen Drive Set Screw	1/4"-28 x 3/16	3/16 in.	10	1/4 - 28



284071

284073

284208

284207

## Boat Top Fittings – Stainless Steel Type 316 – Angle Hinge

Item Number	Style Number	Description	Drilled For	Material	Panhead Screw	Projection	Screw Size	Size	Standard Package
284207	230	Angle Hinge with Screw	#10 screw	Stainless Steel Type 316	1/4 - 20		1/4"-20	3/4 in. x 2 in.	10
284073	387QR	Angle Hinge without Pin – 10° (1/4 in. drilled hole)	#10 screw	Stainless Steel Type 316	1/4 - 20	1 in.		7/8 in. x 2 in.	10
284208	233	Angle Hinge without Screw (1/4 in. drilled hole)	#10 screw	Stainless Steel Type 316				3/4 in. x 2 in.	10
284071	387	Angle Hinge – 10°	#10 screw	Stainless Steel Type 316	1/4 - 20	1 in.	1/4"-20	7/8 in. x 2 in.	10

## Boat Top Fittings – Stainless Steel Type 316 – Concave Hinge



Item Number	Style Number	Description	Drilled For	Projection	Screw Size	Size	Standard Package
284086	386R	Concave Hinge	#10 screw	1-1/4 in.	1/4"-20	3/4 in. x 2-7/16 in.	10
284209	88321	Concave Hinge with 1/4 in. Bolt	#10 screw	1-3/8 in.	1/4 in.	7/8 in. x 2 in.	10
284210	88321N	Concave Hinge without Pin	#10 screw	1-3/8 in.		7/8 in. x 2 in.	10

## Boat Top Fittings – Stainless Steel Type 316 – Socket



Item Number	Style Number	Description	Height	Length	Standard Package	Width
284124	F13-0242/244BN	Concave Hinge Socket with Lanyard	1 in.	2 in.	10	1-1/2 in.
284120	F13-0241/244BN	Deck Hinge Socket with Lanyard			10	
284123	F13-0301/244BN	Hinge Socket with Lanyard			10	



## Boat Top Fittings – Stainless Steel Type 316 – Deck Hinge

Item Number	Style Number	Description	Drilled For	Panhead Screw	Projection	Screw Size	Size	Standard Package
284083	401-07	Bimini Quick Release Deck Hinge	#10 screw		1 in.	1/4"-20	1-3/16 in. x 3-1/2 in.	10
284102	415	Bimini Quick Release Deck Hinge			1.3 in.		3.6 in.	10
284130	F13-1085P	Deck Hinge with D-Ring Port				#8 Oval Head CS Screw		10
284131	F13-1085S	Deck Hinge with D-Ring Starboard				#8 Oval Head CS Screw		10
284082	378QR	Deck Hinge without Pin (1/4 in. drilled hole)	#10 screw		1-1/8 in.		7/8 in. x 2 in.	10
282134	88320N	Deck Hinge without Pin – 90° (1/4 in. drilled hole)	#10 screw				3/4 in. x 2 in.	10
284206	88320	Deck Hinge – 90°	#10 screw	1/4 - 20		1/4"-20	3/4 in. x 2 in.	10
284059		Heavy Duty Adjustable Deck Hinge – 90°		1/4-20 screw	1-1/2 in.	1/4"-20		10
284259	88320-3	High Profile Deck Hinge	#10 screw	5/16 in. flush head screw	3 in.		1 in. x 2 in.	10
284070	378	Straight Deck Hinge	#10 screw	1/4 - 20	1-1/8 in.	1/4"-20 panhead screw	7/8 in. x 2 in.	10

## Boat Top Fittings – Stainless Steel Type 316 – Post



284091

Item Number	Style Number	Description	Size	Standard Package
284091	401-P-07 5/8	Bimini Quick Release Deck Hinge Post	5/8 in.	10
284109	401-P-07 1/2	Bimini Quick Release Deck Hinge Post	1/2 in.	10

## Boat Top Fittings – Stainless Steel Type 316 – Locking Rail Hinge



284265

Item Number	Style Number	Description	For	Standard Package
284265	9027204	Locking Rail Hinge with Quick Release Pin	7/8 in. OD tube	10
284270	9027202	Locking Rail Hinge with Quick Release Pin	1 in. OD tube	10
284278	200297	Locking Rail Hing with Push Button Release	7/8 in. OD tube	10

## Boat Top Fittings – Stainless Steel Type 316 – Side Deck Plate Hinge



286170

Item Number	Style Number	Description	Bolt Size	Drilled For	Screw Size	Size	Standard Package
286170	398	Side Deck Plate – 2-Hole	1/4"-20 Bolt	#10 screws	1/4"-20	7/8 in. x 2 in.	10
286172	388	Side Deck Plate – 4-Hole	1/4"-20 Phillips Bolt	#10 screws			10
286173	388	Side Deck Plate – 4-Hole	5/16" Hex Bolt	#10 screws			10

## Boat Top Fittings - Stainless Steel Type 316 - Side Mount Hinge



289324

Item Number	Description	For	Standard Package
289324	Sliding Side Mount Hinge	1-1/4 in. OD tube	10
289328	Split Side Mount Hinge	1 in. OD tube	10

## Boat Top Fittings – Stainless Steel Type 316 – Lashing Hook



287876

Item Number	Style Number	Description	Size	Standard Package
287876	89010	Lashing Hook with two 3/16 inch holes.	1 in. x 1-1/4 in.	10

## Boat Top Fittings – Stainless Steel Type 316 – Hinged Jaw Slide



284268

Item Number	Style Number	Description	For	Screw Size	Standard Package
284267	8731442	Hinged Jaw Slide with Allen Set Screw	7/8 in. OD tube	1/4"-20	10
284268	8731443	Hinged Jaw Slide with Allen Set Screw	1 in. OD tube	1/4"-20	10
284269	8731447	Hinged Jaw Slide with Allen Set Screw	1-1/4 in. OD tube	1/4"-20	10



226948

## Boat Top Fittings – Stainless Steel Type 316 – Rail

Item Number	Description	Bolt Size	For	Standard Package
226947	Locking Hinged Jaw Slide	1/4 in.	1 in. OD tube	10
226948	Locking Hinged Jaw Slide	1/4 in.	1-1/4 in. OD tube	10

## Boat Top Fittings – Stainless Steel Type 316 – Humpback Jaw Slide



282137



287657



282138



287659

Item Number	Style Number	Description	Bolt Size	For	Screw Size	Standard Package
282137	88398	Humpback Jaw Slide with 2 Set Screws	1/4 in.	7/8 in. OD tube	1/4"-28 pointed set screw	10
282138	88399	Humpback Jaw Slide with 2 Set Screws	1/4 in.	1 in. OD tube	1/4"-28 pointed set screw	10
287657	356	Humpback Jaw Slide		7/8 in. OD tube		10
287659	368	Humpback Jaw Slide	1/4"-20 x 49/64" length slot head bolt	1 in. OD tube	1/4"-28 x 1/4" length hex socket head set screw	10

## Boat Top Fittings – Stainless Steel Type 316 – Jaw Slide



282135



287652



282136



287653

Item Number	Style Number	Description	For	Panhead Screw	Screw Size	Standard Package
287652	356	Jaw Slide with 1/4-28 Set Screw	7/8 in. OD tube	1/4 - 20	1/4"-20	10
287653	368	Jaw Slide with 1/4-28 Set Screw	1 in. OD tube	1/4 - 20	1/4"-20	10
282135	356-88316	Jaw Slide without 1/4-28 Set Screw	7/8 in. OD tube	1/4 - 20		10
282136	356-88317	Jaw Slide without 1/4-28 Set Screw	1 in. OD tube	1/4 - 20		10



284258

## Boat Top Fittings – Stainless Steel Type 316 – Heavy-Duty Jaw Slide

Item Number	Style Number	Description	Bolt Size	For	Standard Package
284258	88329	Heavy Duty Jaw Slide with 2 Set Screws	5/16 in.	1-1/4 in. OD tube	10



284255

## Boat Top Fittings – Stainless Steel Type 316 – Jaw Slide For Pop Rivet

Item Number	Style Number	Description	For	Standard Package
284255	F11-1001	Jaw Slide Socket For Pop Rivet	7/8 in. OD tube	10



287635

## Boat Top Fittings – Stainless Steel Type 316 – Socket Jaw Slide

Item Number	Style Number	Description	For	Screw Size	Standard Package
287635	F11-1001AS	Jaw Slide Socket with Set Screw	7/8 in. OD tube	1/4 in. x 3/16 in. (set screw)	10
287636	F12-0300S	Jaw Slide Socket with Set Screw	1 in. OD tube	1/4 in. x 3/16 in. (set screw)	10



284215

## Boat Top Fittings – Stainless Steel Type 316 – Adjuster Buckle

Item Number	Style Number	Description	For	Standard Package
284215	9114706	Web Adjuster Buckle with Recessed Base	1 in. OD tube	10



284126

## Boat Top Fittings – Stainless Steel Type 316 – Pull Pin

This Pull Pin features a 1-1/2 inch length by 1/8 inch diameter, a 1 inch Pull Knob and 3 inch Lanyard.

Item Number	Style Number	Standard Package
284126	F13-0244BN	10



284203

## Boat Top Fittings – Stainless Steel Type 316 – Push Button

Item Number	Style Number	Description	Standard Package
284203	89008	Push Button	10





226965

## Boat Top Fittings – Stainless Steel Type 316 – Snap Hook

Item Number	Style Number	Description	For	Length	Standard Package	Webbing Size
226965	89007	Fast Eye Heavy Duty Snap Hook	1 in. OD tube	2 in.	10	1 in.



226940

## Boat Top Fittings – Stainless Steel Type 316 – Side Mount with Concave Base

Item Number	Description	Standard Package
226940	Side Mount – 90°	10
226941	Side Mount – 75°	10



282216

## Boat Top Fittings – Stainless Steel Type 316 – Elbow Eye End

Item Number	Style Number	Description	For	Standard Package
282216	88310	Elbow – 90°	1 in. OD tube	10



226920

## Boat Top Fittings – Stainless Steel Type 316 – Slip Tee

Item Number	Description	For	Standard Package
226920	Slip Tee – 90°	7/8 in. OD tube	10
226922	Slip Tee – 90°	1 in. OD tube	10



226921

## Boat Top Fittings – Stainless Steel Type 316 – Hinged Tee

Item Number	Description	For	Screw Size	Standard Package
226921	Hinged Slip Tee – 90°	7/8 in. OD tube	1/4" -28 pointed set screw	10



208340

## Boat Top Fittings – Stainless Steel – Push Button

Item Number	Style Number	Size	Standard Package
208340	II-132	1/4 in.	10



286167

## Boat Top Fittings – Stainless Steel Type 316 – Coaming Pad Hook and Eye Set

This coaming pad hook and eye set (clip) is a two-part design made of high quality type 316 stainless steel. Due to the low-profile design, the clip does not require large mounting holes in a bolster substrate. Clips are sold as a set, and include both components to make for easy upholstery installation and removal.

Item Number	Height	Standard Package
286167	0.25 in.	10



255216

## Boat Top Fittings – Stainless Steel – Bolster Clip

Item Number	Style Number	Length	Standard Package	Width
255216	F16-0094	2.31 in.	1	0.75 in.



275737

## Tubing – Marine – Stainless Steel Type 304

For convertible boat tops and boat railings. Available from 7/8 inch to 1-1/4 inch O.D. with 16 and 18 gauge wall thicknesses. This tubing is tig welded, polished, buffed and paper sleeved. Sold in full lengths only.

Item Number	Length	Outside Diameter	Standard Package	Wall
275737	24 ft.	1 in.	1 piece	0.049 in.
275736	24 ft.	1 in.	1 piece	0.065 in.
275738	24 ft.	1-1/4 in.	1 piece	0.065 in.
275734	24 ft.	7/8 in.	1 piece	0.049 in.
275732	24 ft.	7/8 in.	1 piece	0.065 in.



275741

## Tubing – Marine – Stainless Steel Type 316

For convertible boat tops and boat railings. This tubing is tig welded, polished, buffed and paper sleeved. Sold in full lengths only.

Item Number	Gauge	Length	Outside Diameter	Standard Package	Wall
275741	16	24 ft.	1 in.	1 piece	0.065 in.



578131

## Keder – Marine

Made from a unique, heavy-duty polyester fabric welded to a solid PVC cord. It is easy to sew and won't tear out. It easily slides through Flex-A-Rail and various PVC and aluminum track.

Item Number	Style Number	Color	Put Up	Size
578131		Black	109 yd.	7.5 mm
578134	C7420	Black	109 yd.	8.5 mm x 20 mm
578130		White	109 yd.	7.5 mm
578133	C7420	White	109 yd.	8.5 mm x 20 mm

## Keder – Tent

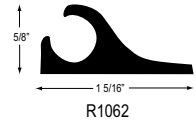
Keder is designed specifically for use in outdoor tensile structures where strength and resistance to the elements are critical. Made from a unique, heavy-duty polyester fabric welded to a solid PVC cord. It is easy to sew and won't tear out.

Available to ship by LTL only.

Item Number	Color	Put Up	Size
578137	Panama with Blackout	218 yd.	11 mm x 40 mm



251028



250817

## Track – PVC

This rigid PVC molding is UV resistant, non-corrosive, non-rusting and can be used in or on salt water. Can be shaped very easily. Will crack under extremely cold conditions.

Sold in full lengths only.

Item Number	Style Number	Description	Color	Degree of Channel	Flange Size	Length	Material	Standard Package	Width
250816	333	With Flange	White	90°	0.610 in.	7.5 ft.	PVC	25	1-1/4 in.
250817	R1062	With Flange	White	45°	0.610 in.	7.5 ft.	PVC	25	1-1/4 in.
250825	1445	With Flange	White	90°	0.610 in.	18 ft.	PVC	25	1-1/4 in.
250828	R1062	With Flange	White	45°	0.610 in.	14 ft.	PVC	25	1-1/4 in.
250829	90-Z-W	Flexible without Flange	White	90°	0.610 in.	7.5 ft.	PVC	20	0.63 in.
250830	90-2-B	Flexible without Flange	Black	90°	0.610 in.	7.5 ft.	PVC	20	1 in.
250831	180-2-W	Flexible	White	90°	0.610 in.	15 ft.	PVC	20	1 in.

## Track – Costa Track®

Costa Track is a center mount track with a heavy-duty PVC profile that maximizes load capability for large covers, bimini and track-to-track enclosures. It is pre-drilled every four inches, and can be heat-formed to most radiuses. Its large channel opening allows use of stainless steel #6 oval head screws for more secure attachment. The deep screw trough base design allows for use of 8.5mm Keder with sufficient clearance of screw heads.

Costa Track is designed with a pocketed underside to accommodate Double-Faced Foam Pressure Sensitive Tape, which is used to set and seal the track to the mounting surface before being secured with the screws.

Item Number	Description	Color	Length	Standard Package	Type	Width
578061	UVR Heavy Duty Vinyl	White	16 ft.	1 piece	Flat	1.5 in.
578063	UVR Heavy Duty Vinyl	Off-White	16 ft.	1 piece	Flat	1.5 in.
578066	UVR Heavy Duty Vinyl	Off-White	16 ft.	1 piece	Contoured	1.5 in.
578067	UVR Heavy Duty Vinyl	White	16 ft.	1 piece	Contoured	1.5 in.
578080	UVR Heavy Duty Vinyl	White	7 ft. 8 in.	1 piece	Flat	1.5 in.

Costa Track® is a registered trademark of Costa Marine Canvas and Enclosures.

## Track – Costa Track® End Cap

This polished end cap gives a professional finish to your Costa Track® track installation while protecting the PVC opening from being “burned out” by taking the keder in and out of the track. Not applicable for contoured Costa Track.



284246

Item Number	Style Number	Height	Length	Material	Standard Package	Width
284246	501354800	3/4"	1"	Stainless Steel Type 316	10	3/4"

## Track – Three Channel – PVC

This white PVC Three Channel Track is designed to extend double track capabilities to locations where fasteners are not available, or when track cannot be mounted to a boat, such as the crown on a hardtop, and cross sections of fabric or stainless steel rods. This track can be used with Trivantage® 8.5 mm Keder.



578069

Item Number	Style Number	Color	Length	Put Up	Standard Package	Width
578069	1290-0003	White	12 ft.	12 ft.	144	0.5 in.

Trivantage® is a registered trademark of Glen Raven, Inc.

## Track – Flex-A-Rail

Flex-A-Rail provides quick and easy installation of boat windshields, tops, covers and curtains.

A PVC extrusion, Flex-A-Rail is non-corrosive and can be run around tight corners without the use of crimping tools. Only small amounts of heat are needed to bend or straighten. Designed for use of 7.5mm Keder. Pre-drill holes just slightly larger than the shank of the screw (screw item# 265453). Holes should be 2 inches to 2-1/2 inches apart for tight radiuses, and 4 inches to 8 inches apart depending upon the configuration of the mounting surface.



578019

Item Number	Style Number	Description	Color	Length	Size	Standard Package	Width
578019	180-2-W	UVR Vinyl	White	180 in.	7.5 mm	50	1 in.



265450

265454



265453

## Track – Trim Screws

For use with PVC and aluminum track.

Item Number	Description	Material	Size	Standard Package
265453	Hex Head Trim Screw	Stainless Steel Type 302	#6 x 3/4" x #4, #0 Square Drive	100-pack
265450	Phillips Head Trim Screw	Stainless Steel	#6 x 3/4" x #4, Phillips Drive	100-pack
265454	Phillips Head Trim Screw	Stainless Steel Type 302	#6 x 5/8" x #4, Phillips Drive	100-pack



250837

## Track – Headliner

Headliner track is an efficient and cost effective way to install or replace headliners. With Headliner Track, there is no need for staplers or trim strips, and fabricators no longer need to work in enclosed spaces using toxic adhesives and heavy foam backed fabrics.

Headliner Track also makes it possible to replace damaged headliners or work on parts of the boat which were previously not accessible without damaging or rebuilding the entire headliner. Headliner Track allows you to simply pull the fabric out of the track and put it back when the work is done.

Headliner Track is available in two profiles. The Perimeter track is used for the outside edge of a cabin ceiling and the Mid-Wall track is used as an intermediate attachment of the headliner fabric's seams and centerlines. Attached with screws, Headliner Track can be easily mitered for clean corners or slotted for gradual bends and curves.

Item Number	Description	Color	Degree of Channel	Flange Size	Length	Material	Standard Package	Weight Per Foot	Width
250837	Perimeter Track	White	90°	0.610 in.	18 ft.	PVC	25	0.15 lbs.	1.5 in.
250838	Mid Wall Track	White	90°	0.610 in.	18 ft.	PVC	25	0.15 lbs.	1.5 in.



277543

## Boat Vent 3

Boat Vent 3 is an improved version of Boat Vent II, which made its name in the marine industry by preventing the growth of mold and mildew on covered boats. Made from a high UV-inhibited plastic, improvements include 40% more venting, an overhanging top to deter moisture, 30 washer teeth for better grip and an ergonomic reversible nut for easy installation.

Item Number	Color	Standard Package
277543	Black	10



277541

## Boat Vent II

A plastic cover support and venting device for use with 3/4 inch or 7/8 inch mooring poles. Designed to distribute a greater volume of exhaust air while closing the top-to-bottom gap that keeps rain out. Suitable for all types of fabric. Unique design eliminates the need for screws, saving time.

Item Number	Color	Standard Package
277541	Black	10



277664

## Boat Vents

Boat Vents

Venting caps for covered marine craft. Designed to prevent mold and mildew growth.

Item Number	Description	Color	Material	Size	Standard Package
277664	Boat Vent Aero Sew In Vent with Screen	Black	Rubber	1-1/2 in. (H) x 5 in. (W) x 6-1/8 in. (L)	10



277547

## SoftVent™ Vented Pole Cap

Item Number	Description	Color	Standard Package
277547	Vented Pole Cap	Black	50
277548	Sewing Attachment Tool		1

SoftVent™ is a trademark of PrecisionSew, LLC.

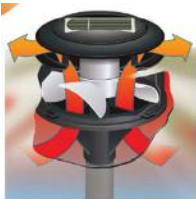


277540

## Boat Vent Circle Cutter

Convenient circle cutter allows a hole to be cut in a matter of seconds, for quick and easy installation of the Boat Vent device into fabric. Simply place the cutter in position on the canvas where your Boat Vent is going to sit, press down, and rotate the handle clockwise. One complete revolution provides the perfect 2-1/4" hole for Boat Vent II or a 2-4/5" hole for Boat Vent 3. Using the circle cutter will save time and prevent costly mistakes. The one-of-a-kind device guarantees cutting at least 2,500 holes without dulling. You can use this circle cutter with Boat Vent II or Boat Vent 3 just by switching the blade around.

Item Number	Description	Standard Package
277540	Boat Vent Circle Cutter	1
277542	Boat Vent Circle Cutter Replacement Blade	1



## Vent-Sol-Air

Vent-Sol-Air uses a solar-powered fan to circulate air under tented boat covers, which fights mold and mildew, and maintains the appearance of a boat's interior.

Vent-Sol-Air mounts to the pole of tented boat covers and installs in minutes. Its sealed, water-resistant design is constructed of tough-plastic for marine-grade durability. Vent-Sol-Air taps the natural power of the sun without using batteries or power cords.



277550

Item Number	Standard Package
277550	10

## HANGTYTE Boat Cover System



274811

HANGTYTE is a boat cover suspension system that works with all covers, eliminating the need for poles. The rope ratchet system can be looped over a boat's tower or any overhead structure. Once tightened, HANGTYTE keeps the cover taut and leaves no chance for pooling of water on the cover.

Depending on the size of your boat, you may need one to three HANGTYTE units. One unit for boats 21-foot and under (cockpit), two units for boats in the 22 to 23-foot range (one in the bow, one in the cockpit) and for boats 24-foot and larger, 3 units (one in the bow, two in the cockpit).

Item Number	Style Number	Standard Package
274811	60901-0000	10

## Rope Ratchet



261911

Tie down ratchet for quick and easy tie down of boat covers. Quick release thumb trigger, rubber dipped hook with a working load limit of 150-lbs. to to 225-lbs. breaking strength.

Item Number	Style Number	Rope Size	Standard Package
261911	XRT	1/4 in.	1

## Needle – Sail



251913

Item Number	Style Number	Finish	Length	Material	Standard Package	Type
251916	16	Nickel Plated	2-3/8 in.	Steel	1	Standard
251913	13	Nickel Plated	3 in.	Steel	25	Standard

## Leather Pearl Splits



249205

A sturdy leather fabric that is ideal for marine applications that require extra reinforcement such as cut-outs, patches, etc.

Item Number	Standard Package	Weight
249205	12	~4 oz.



254720

## Pen – Fabric Marking

This white fabric marking pen is a unique new product that outlasts traditional white pencils while eliminating the need for sharpening. Utilizing a water-soluble ink, it writes like a traditional ball point pen with a white ink that can be washed off with water (for easiest removal, remove any unwanted ink marks within a few days).

The pen works well on textured fabrics like Sunbrella®, Hydrofend®, and Serge Ferrari Stamoid®; soft vinyls like Sunbrella Horizon®; and various other upholstery and awning vinyls. It is not effective on products that have slick or hard surfaces like clear vinyl.

**Features:**

Writes with a crisp, fine line for accurate marking.

Can be washed off with a damp rag, making marks easy to erase.

Hard plastic body and cap guards against breaking.

Doesn't become gummy in hot, humid weather.

Item Number	Style Number	Color	For	Standard Package
254720	64538	White	Vinyl laminates, vinyl coated polyester and nylon	12 pens/box

Sunbrella®, Horizon® and Hydrofend® are registered trademarks of Glen Raven, Inc. Stamoid® is a registered trademark of The Serge Ferrari Group.



254710

## Pencil – Fabric Marking

For clear, easy marking of fabrics:

254711 Black graphite pencil designed for use for shop notes, drawings and writing on hard surfaces. Can be used for light use on white fabric, but may be difficult to remove from woven fabrics.

254709 White marking "spit" pencil has a firmer element than the standard "spit" pencil. Designed for use on a variety of fabrics, including clear vinyl. Markings are best removed with a wet cloth.

254710 Soft yellow marking pencil designed for a variety of fabrics, from wovens to vinyls. Care should be taken to avoid marking too hard, as the yellow compound can be hard to remove. At a minimum, markings can be removed with a damp cloth, but heavier markings may require soap and water. Use with acrylic fabrics should be avoided.

Item Number	Description	For	Standard Package
254711	Black Graphite	White fabrics (any type)	72 pencils/box
254709	White Lead 1256 "Spit Pencil"	Vinyl, acrylic and woven fabrics	72 pencils/box
254710	Yellow Lead	Vinyl fabrics	72 pencils/box

Trivantage® is a registered trademark of Glen Raven, Inc.





255209

### Pins – T

Used to secure fabric and make pattern before sewing. A very helpful aid when doing complex custom work, such as a boat top.

Item Number	Length	Material	Put Up	Standard Package
255209	2 in.	Steel	1/2 lb. box	1



255215

### Pins – Upholstery

Item Number	Style Number	Material	Size	Standard Package
255215	190	Steel	3 in.	1 gross



200795

### Anchor – Pool Cover

The No. 50 deluxe brass anchor remains flush with the pool deck when not in use, and is highly corrosion resistant. It allows the cover to be easily and securely installed by unscrewing the bolt to receive "S" hooks on a rubber tie, a rubber tie hole, or the rounded ring end of the stainless steel spring. There are no threads to strip at the top of the bolt.

Item Number	Style Number	Description	Material	Standard Package
200795	50	Pool Anchor	Brass	1



274515

### Ties – Aluminum

These aluminum ties are flexible and very easy to use. Will not rust or stain and are reusable.

Item Number	Style Number	Length	Standard Package
274515	5	5 in.	25



239401

### Hook – Tarp Binding

Cold drawn steel with zinc-plated finish, designed primarily to hold tarp ropes securely on truck bodies. Can be used in any industry where ropes are used, and where rope must be held tight.

Item Number	Style Number	Description	Diameter Hole	Hook Opening	Length	Standard Package	Wire Diameter
239402	12010	Hook No. 3	3/16 in.	5/8 in.	2 in.	25	0.250 in.
239401	12011	Hook No. 5	1/4 in.	1 in.	3-3/4 in.	25	0.365 in.
239452	12009	Hook No. 52C	3/16 in.	7/16 in.	1-1/2 in.	25	0.192 in.

## Screw Eye



266010

Zinc-plated finish – with sharp gimlet points for quick starting.

Item Number	Style Number	Inside Diameter Eye	Length	Length Shank	Standard Package	Wire Diameter
226010	10	13/32 in.	1-3/8 in.	11/16 in.	25	0.135 in.
226008	8	15/32 in.	1-5/8 in.	13/16 in.	25	0.162 in.

## Screw Eye – Long Shank



226085

Zinc-plated. For fastening through wood shingles.

Item Number	Style Number	Inside Diameter Eye	Length	Length Shank	Standard Package
226085	8-1/2	1/2 in.	2-5/16 in.	1-3/8 in.	25

## Screw Eye – Open Eye



226108

Zinc-plated finish with sharp gimlet points for starting.

Item Number	Style Number	Inside Diameter Eye	Length	Length Shank	Standard Package
226108	8	1/2 in.	1-5/8 in.	13/16 in.	25

## O Ring



260920



261012

Item Number	Diameter of Stock	Finish	Gauge	Inside Diameter of Ring	Material	Standard Package
260905	3/32 in.	Nickel Plated	12	5/8 in.	Steel	1000
260906	1/8 in.	Nickel Plated	11	3/4 in.	Zinc Die-Cast	500
260920	0.177 in.	Nickel Plated	9	1 in.	Steel (Welded)	100
261012	3/8 in.	Cadmium	000	3 in.	Steel	50
261034		Zinc Plated	3	1-1/2 in.	Steel	100
261035		Zinc Plated	6	1-1/4 in.	Steel	100
261037	11/32 in.	Zinc Plated	0	1-3/4 in.	Steel	100
261038	11/32 in.	Zinc Plated	0	2 in.	Steel	100
261039	3/8 in.	Zinc Plated	000	2-1/4 in.	Steel	100
261040	3/8 in.	Zinc Plated	000	2-1/2 in.	Steel	100
261042	3/8 in.	Zinc Plated	000	3 in.	Steel	100
261102	0.177 in.		9	1 in.	Type 304 Stainless Steel	100
261106	0.177 in.		9	1 in.	Type 316 Stainless Steel	100

## Spring – Snap Link



Zinc-plated steel.

266677

Item Number	Style Number	Description	Standard Package
266677	245M-50M	1.97 in. x 5 mm wire	25

## Goldline® EPDM Tie-Down And Tarp Strap



269115

Straps reinforced at hook ends. Hooks are 2-1/2 inch and where included come in a quantity of 2.

To determine strap size, let maximum stretch length, below, be your guide. For example, if distance between tarp grommet and trailer tie-down bar is 24 inch, order a 15 inch strap which provides a maximum 25 inch stretch length. If distance is 27 inch, order a 21 inch strap with maximum 34 inch stretch length.

Where hooks are inserted we supply two hooks per strap.

UNIVERSAL POLYMER Warning for EPDM TARP AND TIE-DOWN STRAPS: Observe maximum stretch warnings. Straps should not be stretched more than 50% of their normal length. Sudden disconnect in a stretched position may cause serious eye injury. Wear safety glasses during tie down and disconnect. Inspect straps before each use. Discard if abraded, cut or cracked. Straps should not be substituted as primary tie-down device for load.

Item Number	Style Number	Description	Length Overall With Hook	Maximum Stretch With Hook	Standard Package	Tarp Strap Length
269109	635197920	Strap without Hooks	13 in.	18 in.	50	10 in.
269115	635197820	Strap without Hooks	18 in.	25 in.	50	15 in.
269120	635196920	Strap without Hooks	24 in.	34 in.	50	21 in.
269310	635197940	Strap with Hooks Inserted	13 in.	18 in.	50	10 in.
269315	635197840	Strap with Hooks Inserted	18 in.	25 in.	50	15 in.
269321	635196940	Strap with Hooks Inserted	24 in.	34 in.	50	21 in.
269331	635197740	Strap with Hooks Inserted	34 in.	49 in.	50	31 in.
269341	635738940	Strap with Hooks Inserted	44 in.	66 in.	50	41 in.

Goldline® is a registered trademark of Universal Polymer & Rubber LTD.

## Hook – Tarp Strap “S”



239801

Item Number	Style Number	Diameter	Gauge	Length	Material	Size Opening	Standard Package
239806	1			1-11/16 in.	Zinc-Plated Steel		25
239807	3			1-5/8 in.	Zinc-Plated Steel		25
269202		0.172 "	9 gauge	2-1/2 in.	Galvanized Steel	7/8 in.	50



261992

# EPDM Tie-Down Rope Black

Use anywhere constant tension is needed. Just cut the cord to the length required, apply the galvanized double eye hooks at both ends, and it's ready for use. Will not crack, chip or peel. Use in any weather.

UNIVERSAL POLYMER Warning for EPDM ROPE TIE-DOWNS: Sudden disconnect in a stretched position may cause serious eye injury. Wear safety glasses during tie down and disconnect. Inspect before use. Discard if abraded, cut or cracked.



261996

Item Number	Style Number	Description	Put Up	Rope Size	Standard Package
261991	933037502		200 ft. coil	3/8 in.	1
261990	933037501		200 ft. coil with 150 double eye hooks	3/8 in.	1
261992	933037503		800 ft. coil	3/8 in.	1
261994	933043701		150 ft. coil	7/16 in.	1
261993	933043702		150 ft. coil with 150 double eye hooks	7/16 in.	1
261995	933043703		600 ft. coil	7/16 in.	1
261996		Galvanized Double Eye Hooks			25



266679

# Snap – Bolt

Malleable iron, loop eye.

Item Number	Style Number	Finish	Length	Material	Standard Package	Webbing Size
266679	25	Cadmium Plated	3-1/4 in.	Malleable Iron	10	1 in.



266672

# Snap – Spring



266895

Item Number	Style Number	Finish	Length	Material	Standard Package	Webbing Size
266680	200	Cadmium Plated	3-1/16 in.	Malleable Iron	10	1 in.
266876	349			Stainless Steel	100	1 in.
266904	5350	Nickel Plated	1-3/4 in.	Steel	20	1 in.
266685	900ST	Nickel Plated		Steel	100	1 in.
266895	5016	Nickel Plated	2-5/8 in.	Steel	100	1 in.
266741	142-A	Zinc Plated	2-1/8 in.	Steel	100	1 in.
266672	200	Zinc Plated	3-9/16 in.	Malleable Iron	10	1-1/2 in.
266681	142-A	Nickel Plated	1-15/16 in.	Steel	100	1-1/2 in.
266674	200	Zinc Plated	3-3/4 in.	Malleable Iron	10	2 in.



266686

## Snap – Tent Wall

Item Number	Style Number	Finish	Material	Standard Package	Webbing Size
266686	340Z	Nickel Plated	Zinc Die Cast	1	1 in.



266514

## Tent Slide

Stamped galvanized steel.

Item Number	Style Number	Length	Rope Size	Standard Package
266514	4	4 in.	5/16 in.	25



267612

## Tent Stake – Steel

Formed of heavy-gauge, precoated galvanized steel. Specially designed top provides maximum strength with minimum weight.

Item Number	Length	Standard Package
267609	9 in.	25
267612	12 in.	25
267615	15 in.	25

## YKK® VISLON® 10VF No. 10 Sliders – Metal



280331

Item Number	Style Number	Description	Color	Color Number	Standard Package
280363	10VFDX	AutoLok Double Pull Tab	Black	580	100
280336	10CFDX	AutoLok Double Pull Tab	White	501	100
280362	10VFDA	AutoLok Single Pull Tab	Black	580	100
280595	10VFDA	AutoLok Single Pull Tab	Light Beige		100
280334	10VFDA	AutoLok Single Pull Tab	White	501	100
280873	10VFDWL	Non-Locking Long Double Pull Tab	Black	580	100
280872	10VFDWL	Non-Locking Long Double Pull Tab	White	501	100
280369	10VDFWW	Non-Locking Short Double Pull Tab	Black	580	100
280332	10VDFWW	Non-Locking Short Double Pull Tab	White	501	100
280331	10VDFW	Non-Locking Short Single Pull Tab	Black	580	100
280330	10VDFW	Non-Locking Short Single Pull Tab	White	501	100
280950	10VDFL	Non-Locking Single Pull Tab	Black	580	100

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## YKK® VISLON® 10VF No. 10 Sliders – Plastic



280417

Item Number	Style Number	Description	Color	Color Number	Material	Standard Package
280364	10VFTX	AutoLok Double Pull Tab	White	501		100
280365	10VFTX	AutoLok Double Pull Tab	Black	580		100
280366	10VFTW	Non-Locking Short Double Pull Tab	White	501		100
280415	10VF	Single Pull Plastic Slider	White	501	Acetal Plastic	100
280417	10VF	Single Pull Plastic Slider	Black	580	Acetal Plastic	100

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## YKK® VISLON® 10VFUV No. 10 Chain (VF)



280311

Full rolls only.

Item Number	Style Number	Color	Color Number	Standard Package	Width
280311	10VF	Black	580	109 yds.	11/16 in.
280309	10VF	Black	580	55 yds.	11/16 in.
299398	10VF	White	501	109 yds.	11/16 in.
280307	10VF	White	501	55 yds.	11/16 in.

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295641

## YKK® VISLON® 5VS No. 5 Sliders – Metal

Item Number	Style Number	Description	Color	Color Number	Standard Package
295658	5VSDXL	AutoLok Standard Double Pull Tab	Black	580	100
295657	5VSDXL	AutoLok Standard Double Pull Tab	White	501	100
295654	5VSDA	AutoLok Standard Single Pull Tab	Black	580	100
295653	5VSDA	AutoLok Standard Single Pull Tab	White	501	100
295650	5VSDWL	Non-Locking Long Double Pull Tab	Black	580	100
295649	5VSDWL	Non-Locking Long Double Pull Tab	White	501	100
295642	5VSDFL	Non-Locking Long Single Pull Tab	Beige	573	100
295641	5VSDFL	Non-Locking Long Single Pull Tab	Black	580	100
295640	5VSDFL	Non-Locking Long Single Pull Tab	White	501	100
295646	5VSDFW	Non-Locking Short Single Pull Tab	Black	580	100
295645	5VSDFW	Non-Locking Short Single Pull Tab	White	501	100

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295670

## YKK® VISLON® 5VS No. 5 Sliders – Plastic

Item Number	Style Number	Description	Color	Color Number	Standard Package
295674	5VSTX	AutoLok Standard Double Pull Tab	Black	580	100
295670	5VSTA	AutoLok Standard Single Pull Tab	Black	580	100
295669	5VSTA	AutoLok Standard Single Pull Tab	White	501	100
295662	5VSTF	Non-Locking Short Single Pull Tab	Black	580	100
295661	5VSTF	Non-Locking Short Single Pull Tab	White	501	100

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295627

## YKK® VISLON® 5VS No. 5 Chain

Full rolls only.

Item Number	Style Number	Color	Color Number	Standard Package	Width
295630	5VS	Beige	573	218 yds.	9/16 in.
295627	5VS	Black	580	109 yds.	9/16 in.
295628	5VS	Black	580	218 yds.	9/16 in.
295625	5VS	White	501	109 yds.	9/16 in.
295626	5VS	White	501	218 yds.	9/16 in.

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## YKK® VISLON® 8VF No. 8 Sliders – Metal



280922

Item Number	Style Number	Description	Color	Color Number	Standard Package
280938	8VFDXL	AutoLok Long Double Pull Tab	Black	580	100
280926	8VFDXL	AutoLok Long Double Pull Tab	White	501	100
280922	8VFDA	AutoLok Single Pull Tab	Black	580	100
280920	8VFDA	AutoLok Single Pull Tab	White	501	100

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## YKK® VISLON® 8VFUV No. 8 Chain



280910

Full rolls only.

Item Number	Style Number	Color	Color Number	Standard Package	Width
280910	8VFUV	Black	580	137 yds.	5/8 in.
280900	8VFUV	White	501	137 yds.	5/8 in.

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## YKK® ZIPLON® Sliders – Metal



279836

Item Number	Style Number	Description	Color	Color Number	Finish	Standard Package
280529	10CFDA6	AutoLok Single Pull Tab	Black	580		100
279836	5CNDA5	AutoLok Single Pull Tab	Black	580		100
280511	10CFDA3	AutoLok Single Pull Tab	White	501		100
279835	5CNDA5	AutoLok Single Pull Tab	White	501		100
279846	5CNDW3L	Non-Locking Long Double Pull Tab	Black	580		100
280341	8CFDWL	Non-Locking Long Double Pull Tab	Black	580		100
280368	10CFDWL	Non-Locking Long Double Pull Tab	Black	580		100
280339	10CFDWL	Non-Locking Long Double Pull Tab	White	501		100
279842	5CNDFL	Non-Locking Long Single Pull Tab			Nickel Plated	100
280515	8CNDFL	Non-Locking Long Single Pull Tab			Nickel Plated	100
280338	10CFDFL	Non-Locking Long Single Pull Tab			Nickel Plated	100
280317	4.5CNDFL	Non-Locking Long Single Pull Tab			Nickel Plated	100
279843	5CNDFL	Non-Locking Long Single Pull Tab	Beige	573		100
280514	8CNDFL	Non-Locking Long Single Pull Tab	Black	580		100
280319	4.5CNDFL	Non-Locking Long Single Pull Tab	Black	580		100
279841	5CNDFL	Non-Locking Long Single Pull Tab	Black	580		100
280348	10CFDFL	Non-Locking Long Single Pull Tab	Black	580		100
279840	5CNDFL	Non-Locking Long Single Pull Tab	White	501		100
280349	10CFDFL	Non-Locking Long Single Pull Tab	White	501		100
279834	10CFDFL	Non-Locking Long Single Pull Tab	White	501	Powder Coated	100
280510	8CFFDFL	Non-Locking Long Single Pull Tab	White	501		100

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279831

## YKK® ZIPLON® Chain (CF)

Full rolls only.

Item Number	Style Number	Color	Color Number	Standard Package	Width
279827	5CF	Beige	573	218 yds.	5/8 in.
280509	8CF	Beige	573	164 yds.	3/4 in.
280316	10CF	Black	580	109 yds.	3/4 in.
280291	4.5CF	Black	580	218 yds.	5/8 in.
279831	5CF	Black	580	218 yds.	5/8 in.
280591	8CF	Black	580	164 yds.	5/8 in.
280505	8CF	Black	580	164 yds.	3/4 in.
280502	9CF	Black	580	109 yds.	3/4 in.
280315	10CF	White	501	109 yds.	3/4 in.
280290	4.5CF	White	501	218 yds.	5/8 in.
279830	5CF	White	501	218 yds.	5/8 in.
280504	8CF	White	501	164 yds.	3/4 in.

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586090

## YKK® Pull Cord

YKK pull cord with a shell-type zipper cord end and elastic pull cord. Made with a durable black acetal plastic cord end and a highly elastic shock cord, it provides maximum tension and hold. Uses include apparel, accessories, backpacks, luggage, bags, marine and outdoor applications, and more.

Item Number	Style Number	Color	Cord Size	Length	Standard Package
586090	LCWE	Black	1/10 in.	4.5 in.	100

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280492

## YKK® VISLON® Bottom Stops

This YKK bottom stop locks the chain to stop the slider where installed. Easily install the zipper stop end with pliers by piercing the prongs through the tape. Made from die-cast zinc with chip-resistant enamel paint. Use the zipper bottom stop for zipper repair, replacement, or custom zipper projects where a sturdy stopper is needed.

Item Number	Style Number	Color	Color Number	Standard Package
280492	10 VF	Black	580	100
295681	5 VS	Black	580	100
280550	10 VF	White	501	100
295680	5 VS	White	501	100

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280493

## YKK® VISLON® Top Stops

Top stops prevent sliders from running off the zipper chain. Easily install the zipper stop end by removing a tooth where the top stop will be placed (one top stop for each side of the zipper). The durable piece of hardware is made from die-cast zinc with enamel paint. Use the zipper top stop for zipper repair, replacement, or custom zipper projects where a sturdy stopper is needed.

Item Number	Style Number	Color	Color Number	Standard Package
280493	10 VF	Black	580	100
280547	10 VF	White	501	100
295682	5 VS	White	501	100
295683	5 VS	Black	580	100

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280490

## YKK® SNAPCAP®

This revolutionary zipper top stop is ready for assembly – simply snap it onto the end of the zipper. This top stop prevents the slider from running off the zipper chain. Use the SNAPCAP zipper top stop for zipper repair, replacement, or custom zipper projects where a sturdy plastic stopper is needed.

Item Number	Style Number	Color	Color Number	Standard Package
280490	10VF	Black	580	100
280491	10VF	White	501	100

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280974

## Top Stop No. 10

No. 10 Zipper Top Stop is placed over a tooth on each side of the zipper and bent in place with pliers. It eliminates the need to cut the zipper and chain with a hot knife or sew it down to form a stop. Providing added flexibility, the Stainless Steel Zipper Top Stop can be moved if needed.

Item Number	Style Number	Material	Standard Package
280974	89001	Stainless Steel	100



255251

## Zipper Stop Application Tool

Convenient tool designed specifically to apply Zipper Stop to zipper chain, helping eliminate slippage and rotation of the stop. Features a special groove that firmly holds zipper stop in place.

Item Number	Style Number	Standard Package
255251	1012	1



255252

## Zipper Jig

Save time during zipper installations with the Zipper Jig. This handy tool holds YKK® zipper sliders from #2.5 to #10, allowing you to easily install sliders. The lower clamp securely holds the Zipper Jig to a counter, while the upper clamp is used to lock the jig rod in any direction. It even allows you to put a zipper on backwards. The Zipper Jig is 5-1/2 inch x 4-3/4 inch, making it ideal for workstations.

To use simply place the slider upside-down and facing forward into the slot on the rod. Open the zipper one or two inches and hold face down. Feed both sides evenly into the slider held by the rod, coming in at a 45 degree angle. Pull forward and it's done!

Item Number	Style Number	Standard Package
255252	1014	1

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279872

## YKK® VISLON® UV VFUV No. 10 Separating Zipper Automatic Lock – Metal Slider

All element and slider materials are scientifically designed to resist damage from sunlight as well as corrosion. Teeth injection-molded from DuPont™ Delrin®.

UV-resistant acetal resin attached to a strong cord and tape, which ensure the sliders stay on track. The Delrin polymer reduces the effect of ultraviolet radiation, significantly increasing its useful life.

Item Number	Style Number	Description	Color	Color Number	Length	Standard Package
279872	VFUVOL	Single Pull Metal Slider	Black	32483	108 in.	10
279868	VFUV	Double Pull Metal Slider	Black	41578	144 in.	10
279866	VFUV	Double Pull Nylon Slider	Black	32241	78 in.	10

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279893

## YKK® VISLON® UV VFUV No. 8 Separating Zipper Non-Locking – Double Pull Metal Slider

All element and slider materials are scientifically designed to resist damage from sunlight as well as corrosion. Teeth injection-molded from DuPont™ Delrin®.

UV-resistant acetal resin attached to a strong cord and tape, which ensure the sliders stay on track. The Delrin polymer reduces the effect of ultraviolet radiation, significantly increasing its useful life.

Item Number	Style Number	Color	Color Number	Length	Standard Package
279890	VFUV	Black	32238	18 in.	10
279891	VFUV	Black	32238	24 in.	10
279893	VFUV	Black	32238	36 in.	10
279895	VFUV	Black	32238	42 in.	10
279896	VFUV	Black	32238	48 in.	10
279897	VFUV	Black	32238	54 in.	10
279898	VFUV	Black	32238	60 in.	10
279900	VFUV	Black	32238	72 in.	10
279875	VFUV	White	32438	18 in.	10
279876	VFUV	White	32438	24 in.	10

Item Number	Style Number	Color	Color Number	Length	Standard Package
279878	VFUV	White	32438	36 in.	10
279880	VFUV	White	32438	48 in.	10
279882	VFUV	White	32438	60 in.	10
279884	VFUV	White	32438	72 in.	10

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296215

## YKK® VISLON® VFOL105W No. 10 Separating Zipper Non-Locking – Double Pull Metal Slider

YKK® No. 10 VISLON® separating zippers are extremely strong and lightweight and differ from conventional zippers, because the “teeth” are made from Delrin® and the tape is polyester. Because of the unique properties of the VISLON zipper, it has a wide variety of industrial, consumer and military applications where environmental conditions reduce the effectiveness of metal zippers.

The VISLON zipper is corrosion resistant. The zipper is self-lubricating and operates smoothly despite mud, sand, etc. The color is an integral part of the molding material, creating a finish that does not rub off, peel or chip.

Item Number	Style Number	Color	Color Number	Length	Standard Package
296215	VFOL105W	Black	580	60 in.	10
296234	VFOL105W	Onion	801	72 in.	10

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280243

## YKK® VISLON® VFULVOL-107 DX E No. 10 Separating Zipper With Automatic Lock – Short Double Pull Metal Slider

YKK® No. 10 VISLON® separating zippers are extremely strong and lightweight and differ from conventional zippers, because the “teeth” are made from Delrin® and the tape is polyester. Because of the unique properties of the VISLON zipper, it has a wide variety of industrial, consumer and military applications where environmental conditions reduce the effectiveness of metal zippers.

The VISLON zipper is corrosion resistant. The zipper is self-lubricating and operates smoothly despite mud, sand, etc. The color is an integral part of the molding material, creating a finish that does not rub off, peel or chip.

Item Number	Style Number	Color	Color Number	Length	Standard Package
280243	VFULVOL-107 DX E	Natural	572	96 in.	10

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296180

## YKK® VISLON® VFUVOL-106 DA E No. 10 Separating Zipper With Automatic Lock – Short Single Pull Metal Slider

YKK® No. 10 VISLON® separating zippers are extremely strong and lightweight and differ from conventional zippers, because the “teeth” are made from Delrin® and the tape is polyester. Because of the unique properties of the VISLON zipper, it has a wide variety of industrial, consumer and military applications where environmental conditions reduce the effectiveness of metal zippers.

The VISLON zipper is corrosion resistant. The zipper is self-lubricating and operates smoothly despite mud, sand, etc. The color is an integral part of the molding material, creating a finish that does not rub off, peel or chip.

Item Number	Style Number	Color	Color Number	Length	Standard Package
296196	VFUVOL-106 DA E	Black	580	110 in.	10
296183	VFUVOL-106 DA E	Black	580	12 in.	10
296198	VFUVOL-106 DA E	Black	580	120 in.	10
296199	VFUVOL-106 DA E	Black	580	144 in.	10
296180	VFUVOL-106 DA E	Black	580	24 in.	10
296182	VFUVOL-106 DA E	Black	580	36 in.	10
296184	VFUVOL-106 DA E	Black	580	42 in.	10
296185	VFUVOL-106 DA E	Black	580	48 in.	10
296186	VFUVOL-106 DA E	Black	580	54 in.	10
296187	VFUVOL-106 DA E	Black	580	60 in.	10
296190	VFUVOL-106 DA E	Black	580	72 in.	10
296192	VFUVOL-106 DA E	Black	580	84 in.	10
296194	VFUVOL-106 DA E	Black	580	96 in.	10
296178	VFUVOL-106 DA E	White	501	120 in.	10
296179	VFUVOL-106 DA E	White	501	144 in.	10
296156	VFUVOL-106 DA E	White	501	18 in.	10
296160	VFUVOL-106 DA E	White	501	24 in.	10
296162	VFUVOL-106 DA E	White	501	36 in.	10
296165	VFUVOL-106 DA E	White	501	48 in.	10
296167	VFUVOL-106 DA E	White	501	60 in.	10
296170	VFUVOL-106 DA E	White	501	72 in.	10
296172	VFUVOL-106 DA E	White	501	84 in.	10
296174	VFUVOL-106 DA E	White	501	96 in.	10

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279692

## YKK® VISLON® VFUVOL-106 EW 11/16 Boat Top UV Separating Zipper with Automatic Lock – Short Single Pull Plastic Slider

Item Number	Style Number	Color	Length	Standard Package
279696	VFUVOL-106 EW 11/16	Black	108 in.	10
279697	VFUVOL-106 EW 11/16	Black	120 in.	10
279690	VFUVOL-106 EW 11/16	Black	24 in.	10
279691	VFUVOL-106 EW 11/16	Black	36 in.	10
279692	VFUVOL-106 EW 11/16	Black	48 in.	10
279693	VFUVOL-106 EW 11/16	Black	60 in.	10
279694	VFUVOL-106 EW 11/16	Black	72 in.	10
279695	VFUVOL-106 EW 11/16	Black	84 in.	10

Item Number	Style Number	Color	Length	Standard Package
279687	VFUVOL-106 EW 11/16	White	120 in.	10
279680	VFUVOL-106 EW 11/16	White	24 in.	10
279681	VFUVOL-106 EW 11/16	White	36 in.	10
279682	VFUVOL-106 EW 11/16	White	48 in.	10
279683	VFUVOL-106 EW 11/16	White	60 in.	10
279684	VFUVOL-106 EW 11/16	White	72 in.	10
279685	VFUVOL-106 EW 11/16	White	84 in.	10
279686	VFUVOL-106 EW 11/16	White	96 in.	10

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296119

## YKK® VISLON® VFUVOL-107 DX E No. 10 Separating Zipper With Automatic Lock – Short Double Pull Metal Slider

YKK® No. 10 VISLON® separating zippers are extremely strong and lightweight and differ from conventional zippers, because the “teeth” are made from Delrin® and the tape is polyester. Because of the unique properties of the VISLON zipper, it has a wide variety of industrial, consumer and military applications where environmental conditions reduce the effectiveness of metal zippers.

The VISLON zipper is corrosion resistant. The zipper is self-lubricating and operates smoothly despite mud, sand, etc. The color is an integral part of the molding material, creating a finish that does not rub off, peel or chip.

Item Number	Style Number	Color	Color Number	Length	Standard Package
296145	VFUVOL-107 DX E	Black	580	100 in.	10
296147	VFUVOL-107 DX E	Black	580	108 in.	10
296149	VFUVOL-107 DX E	Black	580	110 in.	10
296118	VFUVOL-107 DX E	Black	580	12 in.	10
296151	VFUVOL-107 DX E	Black	580	120 in.	10
296120	VFUVOL-107 DX E	Black	580	18 in.	10
296119	VFUVOL-107 DX E	Black	580	20 in.	10
296122	VFUVOL-107 DX E	Black	580	24 in.	10
296154	VFUVOL-107 DX E	Black	580	240 in.	10
296124	VFUVOL-107 DX E	Black	580	30 in.	10
296125	VFUVOL-107 DX E	Black	580	34 in.	10
296126	VFUVOL-107 DX E	Black	580	36 in.	10
296128	VFUVOL-107 DX E	Black	580	40 in.	10
296129	VFUVOL-107 DX E	Black	580	42 in.	10
296134	VFUVOL-107 DX E	Black	580	46 in.	10
296131	VFUVOL-107 DX E	Black	580	48 in.	10
296133	VFUVOL-107 DX E	Black	580	54 in.	10
296135	VFUVOL-107 DX E	Black	580	60 in.	10
296137	VFUVOL-107 DX E	Black	580	66 in.	10
296142	VFUVOL-107 DX E	Black	580	68 in.	10
296139	VFUVOL-107 DX E	Black	580	72 in.	10
296144	VFUVOL-107 DX E	Black	580	76 in.	10
296146	VFUVOL-107 DX E	Black	580	80 in.	10
296141	VFUVOL-107 DX E	Black	580	84 in.	10
296148	VFUVOL-107 DX E	Black	580	90 in.	10
296143	VFUVOL-107 DX E	Black	580	96 in.	10

Items continue on next page.

Item Number	Style Number	Color	Color Number	Length	Standard Package
296265	VFUVOL-107 DX E	Light Beige	573	120 in.	10
296270	VFUVOL-107 DX E	Light Beige	573	144 in.	10
296233	VFUVOL-107 DX E	Light Beige	573	18 in.	10
296236	VFUVOL-107 DX E	Light Beige	573	24 in.	10
296237	VFUVOL-107 DX E	Light Beige	573	30 in.	10
296239	VFUVOL-107 DX E	Light Beige	573	36 in.	10
296242	VFUVOL-107 DX E	Light Beige	573	42 in.	10
296245	VFUVOL-107 DX E	Light Beige	573	48 in.	10
296248	VFUVOL-107 DX E	Light Beige	573	54 in.	10
296251	VFUVOL-107 DX E	Light Beige	573	60 in.	10
296254	VFUVOL-107 DX E	Light Beige	573	72 in.	10
296257	VFUVOL-107 DX E	Light Beige	573	84 in.	10
296260	VFUVOL-107 DX E	Light Beige	573	96 in.	10
296089	VFUVOL-107 DX E	White	501	100 in.	10
296091	VFUVOL-107 DX E	White	501	108 in.	10
296092	VFUVOL-107 DX E	White	501	110 in.	10
296094	VFUVOL-107 DX E	White	501	120 in.	10
296098	VFUVOL-107 DX E	White	501	144 in.	10
296099	VFUVOL-107 DX E	White	501	154 in.	10
296061	VFUVOL-107 DX E	White	501	18 in.	10
296063	VFUVOL-107 DX E	White	501	24 in.	10
296105	VFUVOL-107 DX E	White	501	240 in.	10
296065	VFUVOL-107 DX E	White	501	30 in.	10
296068	VFUVOL-107 DX E	White	501	36 in.	10
296069	VFUVOL-107 DX E	White	501	40 in.	10
296070	VFUVOL-107 DX E	White	501	42 in.	10
296072	VFUVOL-107 DX E	White	501	48 in.	10
296074	VFUVOL-107 DX E	White	501	54 in.	10
296076	VFUVOL-107 DX E	White	501	60 in.	10
296080	VFUVOL-107 DX E	White	501	66 in.	10
296082	VFUVOL-107 DX E	White	501	72 in.	10
296084	VFUVOL-107 DX E	White	501	78 in.	10
296086	VFUVOL-107 DX E	White	501	84 in.	10
296087	VFUVOL-107 DX E	White	501	90 in.	10
296088	VFUVOL-107 DX E	White	501	96 in.	10

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280758

## YKK® VISLON® VFUVOL-87 DXL E No. 8 Separating Zipper With Automatic Lock – Long Double Pull Metal Slider

YKK® No. 8 VISLON® separating zippers are extremely strong and lightweight and differ from conventional zippers, because the “teeth” are made from Delrin® and the tape is polyester. Because of the unique properties of the VISLON zipper, it has a wide variety of industrial, consumer and military applications where environmental conditions reduce the effectiveness of metal zippers.

The VISLON zipper is corrosion resistant. The zipper is self-lubricating and operates smoothly despite mud, sand, etc. The color is an integral part of the molding material, creating a finish that does not rub off, peel or chip.

Item Number	Style Number	Color	Color Number	Length	Standard Package
280770	VFUVOL-87 DXL E	Black	580	110 in.	10
280772	VFUVOL-87 DXL E	Black	580	120 in.	10
280740	VFUVOL-87 DXL E	Black	580	18 in.	10
280741	VFUVOL-87 DXL E	Black	580	22 in.	10
280742	VFUVOL-87 DXL E	Black	580	24 in.	10
280744	VFUVOL-87 DXL E	Black	580	30 in.	10
280746	VFUVOL-87 DXL E	Black	580	36 in.	10
280748	VFUVOL-87 DXL E	Black	580	40 in.	10
280750	VFUVOL-87 DXL E	Black	580	42 in.	10
280752	VFUVOL-87 DXL E	Black	580	48 in.	10
280754	VFUVOL-87 DXL E	Black	580	54 in.	10
280756	VFUVOL-87 DXL E	Black	580	60 in.	10
280758	VFUVOL-87 DXL E	Black	580	66 in.	10
280760	VFUVOL-87 DXL E	Black	580	72 in.	10
280762	VFUVOL-87 DXL E	Black	580	78 in.	10
280764	VFUVOL-87 DXL E	Black	580	84 in.	10
280766	VFUVOL-87 DXL E	Black	580	96 in.	10
280800	VFUVOL-87 DXL E	Gray	576	72 in.	10
280806	VFUVOL-87 DXL E	Gray	576	96 in.	10
280730	VFUVOL-87 DXL E	White	501	110 in.	10
280732	VFUVOL-87 DXL E	White	501	120 in.	10
280700	VFUVOL-87 DXL E	White	501	18 in.	10
280702	VFUVOL-87 DXL E	White	501	24 in.	10
280706	VFUVOL-87 DXL E	White	501	36 in.	10
280710	VFUVOL-87 DXL E	White	501	42 in.	10
280712	VFUVOL-87 DXL E	White	501	48 in.	10
280714	VFUVOL-87 DXL E	White	501	54 in.	10
280717	VFUVOL-87 DXL E	White	501	56 in.	10
280716	VFUVOL-87 DXL E	White	501	60 in.	10
280720	VFUVOL-87 DXL E	White	501	72 in.	10
280722	VFUVOL-87 DXL E	White	501	78 in.	10
280724	VFUVOL-87 DXL E	White	501	84 in.	10
280726	VFUVOL-87 DXL E	White	501	96 in.	10

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280446

## YKK® VISLON® VFUVOL107TX No. 10 Separating Zipper With Automatic Lock – Double-Pull Plastic Slider

YKK® No. 10 VISLON® separating zippers are extremely strong and lightweight and differ from conventional zippers, because the “teeth” are made from Delrin® and the tape is polyester. Because of the unique properties of the VISLON zipper, it has a wide variety of industrial, consumer and military applications where environmental conditions reduce the effectiveness of metal zippers.

The VISLON zipper is corrosion resistant. The zipper is self-lubricating and operates smoothly despite mud, sand, etc. The color is an integral part of the molding material, creating a finish that does not rub off, peel or chip.

Item Number	Style Number	Color	Color Number	Length	Standard Package
280442	VFUVOL107TX	Black	580	100 in.	10
280444	VFUVOL107TX	Black	580	108 in.	10
280446	VFUVOL107TX	Black	580	110 in.	10
280448	VFUVOL107TX	Black	580	120 in.	10
280418	VFUVOL107TX	Black	580	18 in.	10
280420	VFUVOL107TX	Black	580	24 in.	10
280421	VFUVOL107TX	Black	580	30 in.	10
280422	VFUVOL107TX	Black	580	36 in.	10
280424	VFUVOL107TX	Black	580	40 in.	10
280426	VFUVOL107TX	Black	580	42 in.	10
280428	VFUVOL107TX	Black	580	48 in.	10
280430	VFUVOL107TX	Black	580	54 in.	10
280432	VFUVOL107TX	Black	580	60 in.	10
280434	VFUVOL107TX	Black	580	66 in.	10
280436	VFUVOL107TX	Black	580	72 in.	10
280438	VFUVOL107TX	Black	580	84 in.	10
280440	VFUVOL107TX	Black	580	96 in.	10
280242	VFUVOL107TX	White	501	100 in.	10
280244	VFUVOL107TX	White	501	108 in.	10
280246	VFUVOL107TX	White	501	110 in.	10
280248	VFUVOL107TX	White	501	120 in.	10
280218	VFUVOL107TX	White	501	18 in.	10
280220	VFUVOL107TX	White	501	24 in.	10
280221	VFUVOL107TX	White	501	30 in.	10
280222	VFUVOL107TX	White	501	36 in.	10
280224	VFUVOL107TX	White	501	40 in.	10
280226	VFUVOL107TX	White	501	42 in.	10
280228	VFUVOL107TX	White	501	48 in.	10
280230	VFUVOL107TX	White	501	54 in.	10
280232	VFUVOL107TX	White	501	60 in.	10
280234	VFUVOL107TX	White	501	66 in.	10
280236	VFUVOL107TX	White	501	72 in.	10
280237	VFUVOL107TX	White	501	78 in.	10
280238	VFUVOL107TX	White	501	84 in.	10
280240	VFUVOL107TX	White	501	96 in.	10

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295685

## YKK® VISLON® VSOL56 No. 5 Separating Zipper With Automatic Lock – Short Single Pull Metal Slider

YKK® No. 5 VISLON® separating zippers are extremely strong and lightweight and differ from conventional zippers, because the “teeth” are made from Delrin® and the tape is polyester. Because of the unique properties of the VISLON zipper, it has a wide variety of industrial, consumer and military applications where environmental conditions reduce the effectiveness of metal zippers.

The VISLON zipper is corrosion resistant. The zipper is self-lubricating and operates smoothly despite mud, sand, etc. The color is an integral part of the molding material, creating a finish that does not rub off, peel or chip.

Item Number	Style Number	Color	Color Number	Length	Standard Package
295728	VSOL56	Black	580	108 in.	10
295711	VSOL56	Black	580	12 in.	10
295730	VSOL56	Black	580	144 in.	10
295713	VSOL56	Black	580	24 in.	10
295714	VSOL56	Black	580	30 in.	10
295715	VSOL56	Black	580	36 in.	10
295716	VSOL56	Black	580	42 in.	10
295717	VSOL56	Black	580	44 in.	10
295745	VSOL56	Black	580	46 in.	10
295718	VSOL56	Black	580	48 in.	10
295685	VSOL56	Black	580	52 in.	10
295719	VSOL56	Black	580	54 in.	10
295720	VSOL56	Black	580	60 in.	10
295722	VSOL56	Black	580	72 in.	10
295724	VSOL56	Black	580	84 in.	10
295726	VSOL56	Black	580	96 in.	10
295707	VSOL56	White	501	108 in.	10
295690	VSOL56	White	501	12 in.	10
295709	VSOL56	White	501	144 in.	10
295692	VSOL56	White	501	24 in.	10
295693	VSOL56	White	501	30 in.	10
295694	VSOL56	White	501	36 in.	10
295695	VSOL56	White	501	42 in.	10
295687	VSOL56	White	501	46 in.	10
295697	VSOL56	White	501	48 in.	10
295698	VSOL56	White	501	54 in.	10
295699	VSOL56	White	501	60 in.	10
295701	VSOL56	White	501	72 in.	10
295703	VSOL56	White	501	84 in.	10
295705	VSOL56	White	501	96 in.	10

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280085

## YKK® VISLON® VFUVOL-86 DA E 5/8 No. 8 Separating Zipper With Automatic Lock – Single Pull Metal Slider

Item Number	Style Number	Color	Length	Standard Package
280085	VFUVOL86 DA E 5/8	Black	60 in.	10

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295778

## YKK® ZIPLON® CFOR-106 DA E No. 10 Separating Zipper with Automatic Lock – Single Pull Metal Slider

Item Number	Style Number	Color	Color Number	Length	Standard Package
295779	CFOR-106 DA E	Black	580	108 in.	10
295767	CFOR-106 DA E	Black	580	36 in.	10
295769	CFOR-106 DA E	Black	580	48 in.	10
295771	CFOR-106 DA E	Black	580	60 in.	10
295773	CFOR-106 DA E	Black	580	72 in.	10
295777	CFOR-106 DA E	Black	580	96 in.	10
295778	CFOR-106 DA E	White	501	108 in.	10
295766	CFOR-106 DA E	White	501	36 in.	10
295768	CFOR-106 DA E	White	501	48 in.	10
295770	CFOR-106 DA E	White	501	60 in.	10
295772	CFOR-106 DA E	White	501	72 in.	10
295774	CFOR-106 DA E	White	501	84 in.	10
295776	CFOR-106 DA E	White	501	96 in.	10

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295973

## YKK® ZIPLON® CFOR-105 DWL E No. 10 Separating Zipper Non-Locking – Double Pull Metal Slider

Item Number	Style Number	Color	Color Number	Length	Standard Package
295973	CFOR-105 DWL E	Black	580	108 in.	10
295961	CFOR-105 DWL E	Black	580	36 in.	10
295963	CFOR-105 DWL E	Black	580	48 in.	10
295965	CFOR-105 DWL E	Black	580	60 in.	10
295967	CFOR-105 DWL E	Black	580	72 in.	10
295969	CFOR-105 DWL E	Black	580	84 in.	10
295971	CFOR-105 DWL E	Black	580	96 in.	10
295972	CFOR-105 DWL E	White	501	108 in.	10
295960	CFOR-105 DWL E	White	501	36 in.	10
295962	CFOR-105 DWL E	White	501	48 in.	10
295964	CFOR-105 DWL E	White	501	60 in.	10
295968	CFOR-105 DWL E	White	501	84 in.	10
295970	CFOR-105 DWL E	White	501	96 in.	10

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279570

## Sunbrella® SUNZIP™ III #10 Separating Zipper with Automatic Lock – Double Pull Metal Slider

Sunbrella SUNZIP marine zippers are lightweight but strong. They're water repellent, mold and mildew resistant, and bleach cleanable. This makes them great for boat covers, boat enclosures, and other marine applications. For reliable performance, this is the first zipper to feature genuine Sunbrella Acrylic zipper tape. To resist fading and damage from the sun, the zipper teeth are made from UV-resistant resin.

Item Number	Color	Length	Standard Package
279570	Black	36 in.	10
279571	Black	48 in.	10
279572	Black	60 in.	10
279573	Black	72 in.	10
279551	White	36 in.	10
279552	White	48 in.	10
279553	White	60 in.	10
279554	White	72 in.	10

Sunbrella® is a registered trademark of Glen Raven, Inc. SUNZIP™ is a trademark of IDEAL Fastener Corporation.

## YKK® ZIPPY COOL®

This two-part product includes a cleaner and lubricant. It is specially formulated for use on all types of metal and plastic zippers. The patented push/pull dispenser brush removes harmful dirt, sand and salt. After rinsing, it leaves a protective film on the zipper. Lubrication on the zipper will not flake or cause jams, even in extreme temperatures. It contains no silicone or paraffin.



279813

Item Number	Description	Standard Package
279813	Zippy Cleaner and Lubricant	1

YKK® and ZIPPY COOL® are registered trademarks of YKK Corporation in Japan and other countries/regions.

## Zipzap Lubricants

Extends the life of the zipper. Cleans and lubricates plastic, nylon, and metal zippers, without collecting dirt, sand or organic residue. The wax provides smooth zipper teeth operation, and the fluid cleans and lubricates the zipper action.



279800

Item Number	Description	Put Up	Standard Package
279800	Fluid	2 oz.	1



202475

## Awl – Automatic

The No. 413 Automatic Awl is used for sewing leather and canvas. This tool carries a spool of thread on the handle and includes an extra curved needle and wrench.

Item Number	Style Number	Description	Standard Package
202475	413	Automatic Awl	1
202476	413N-5	Automatic Awl Straight Needle	1
202479	413N-8	Automatic Awl Straight Needle	1



202476

## Awl – Heavy-Duty Scratch No. 4

Scratch Awl comes with a plastic handle and quality steel blade. It's used to mark surfaces for cutting and fabrication and for holding down fabric while working.



202469

Item Number	Style Number	Blade Size	Standard Package
202469	4-1	2-1/2 in.	1
202470	4-2	3-1/2 in.	1



275441

## DrillSteady Drill For Stainless Tubing

DrillSteady uses 9/64 inch drill bit for No. 8 screw or fastener. Unique design allows drilling on installed frames, corners, or anywhere.

Item Number	Style Number	Standard Package
275441	3587	1



216110

## DOT® Snapmaster M840

The M840 hand press incorporates many features of bench and foot presses in a portable and cost-effective tool. Ideal for installing DOT® Durable™, Pull-The-Dot®, Lift-The-Dot® and curtain fasteners. Replacement parts available.

Item Number	Style Number	Description	For Use With	Standard Package
216115	4101	Cutting Die	16205 DOT Lift-The-Dot Socket	1
216136	4405	Setting Die Cap	18100 DOT Pull-The-Dot Button	1
216134	4203	Setting Die	78403 Curtain Fastener Eyelet	1
216118	4401	Setting Die	16506 DOT Lift-The-Dot Clinch Plate	1
216125	4402	Setting Die	78505 Curtain Fastener Washer	1
216130	4403	Setting Die	10127/10128 DOT Durable Button	1
216133	4103	Setting Punch	78403 Curtain Fastener Eyelet	1
216117	4301	Setting Punch	16205 DOT Lift-The-Dot Socket	1
216124	4302	Setting Punch	78403 Curtain Fastener Eyelet	1
216129	4303	Setting Punch	10224 DOT Durable Socket	1
216131	4304	Setting Punch	10370 DOT Durable Stud	1
216135	4305	Setting Punch	18201 DOT Pull-The-Dot Socket	1
216110		Snapmaster Hand Press M840		1



216133



216134

Item Number	Style Number	Description	For Use With	Standard Package
275524	4307	Socket Setting Punch	94-12205 Baby Durable, 94-12206 Baby Durable	1
275525	4308	Stud Setting Punch	94-12303 Baby Durable, 94-12302 Baby Durable	1

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## Hand Tools For DOT® Common Sense® Fasteners



216047

Item Number	Style Number	Description	For	Standard Package
275444	4100	Eyelet Hole Cutting Tool		1
216050	89-450E	Hole Cutter	Use with cutting pad (#223449). For BS- 78403 (No. 400) eyelet.	1
223509	9578	Machine Die	Use with BS-78502 back plate	1
216047	QTTL	Quick Turn Lock Driver	Use with 1/4 in. cordless screw driver or drill motor to install Common Sense XX-78315, XX-78324, XX-78325, X8-78324, XB-78324 or XB-78325.	1

DOT® and Common Sense® are registered trademarks of Scovill Fasteners, Inc.

## Hand Tools For DOT® Lift-The-Dot® Fasteners



275501

Item Number	Style Number	Description	For	Standard Package
275529	89-9941		Use with washers (BS-16509)	1
275575	171	Hole Cutting Punch Tool for Prong Fasteners	Use with cutting pad (#223449). Hand punch for BS-78332, BS-78333 or BS-16349.	1
275501	9951E	Hole Cutting Punch Tool	Use with cutting pad (#223449). For XX-16205 socket with chisel point.	1
275505	169B	Screwdriver	Lift-the-Dot Screw Studs	1
275445	4000	Socket Hole Cutting Tool		1

DOT® and Lift-The-Dot® are registered trademarks of Scovill Fasteners, Inc.

## Hand Tools For DOT® Durable™ Fasteners



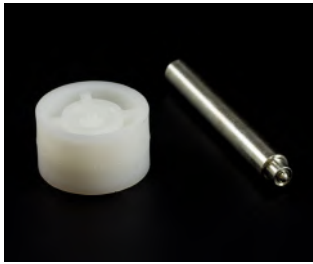
275504



275564

Item Number	Style Number	Description	For	Standard Package
275564	164	Cap Hand Punch		1
275583	1482	Die	Baby Durable 12105 cap	1
275587	1488	Die	Baby Durable 12404, 12405 or 12407 post	1
275504	169N	Phillips Head Screwdriver	Use with X8-10301, X8-10302, XX-10362, X8-10393, XB-10393, X8-10704, X8-10934.	1
275588	9323	Punch	Baby Durable 12205 or 12206 socket.	1
275507	9772	Setting Die	Baby Durable 12302 or 12303.	1

DOT® is a registered trademark of Scovill Fasteners, Inc. Durable™ is a trademark of Scovill Fasteners, Inc.



248133

## Fabric Fastener Kit

This die setting kit is used for installing DOT® Durable™ fasteners. The fabric fastener kit comes with a hand punch and fastener die for swift install. Use for setting DOT® Durable™ 10128 buttons, 10224 sockets, 10370 studs, and 10412 posts (all sold separately). The fasteners are ideal for use on canvas, tarps, tents, awnings, sailcloth, patio furniture, and more.

Item Number	Style Number	Description	Standard Package
248133	USC1T	Nos. 9896 and 9897 setting tools (2 pieces each bag)	1

DOT® is a registered trademark of Scovill Fasteners, Inc. Durable™ is a trademark of Scovill Fasteners, Inc.



256071

## Hand Press No. M-380E

Easily mounted to a wooden table or bench, this hand-operated press is designed to quickly and securely attach a wide assortment of metal and plastic fasteners. Interchangeable with all hand and foot machine dies, this hand press is a required tool for fabricators and features an adjustable lower die holder for greater flexibility and creativity.

Item Number	Style Number	Height	Standard Package	Weight
256071	M-380E	12"	1	7 lbs.



223500

## DOT® Semi-Automatic Electric Foot Press 89-M200

The semi-automatic foot press is used to set many DOT fasteners and grommets. This electric powered setter comes with a targeting light, adjustable compensator, full safety guards, and an adjustable lower die holder. The throat depth is 4.5", the table height is 28", and it weighs 200 pounds. The die opening is 3/8". Dies not included.

Item Number	Standard Package
223500	1

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Hand Press No. M380E and M200 – DOT® Die Set

These DOT Durable™ dies are strong enough to punch through multiple layers of fabric for maximum hold. It's perfect for projects using marine canvas and upholstery fabric. Applications include boat covers, boat seats, gear bags, luggage, outdoor fabric, tents, and awnings. Complete your set of performance upholstery tools with heavy-duty DOT dies. These fastener die sets are used with the 89-M200 or 89-M380E press machines. Sturdy enough to last through continued use and appropriate for various types of fasteners. Available for both Durable Dot and Pull-The-Dot® fasteners.

Item Number	Style Number	For Use With	Standard Package
223464	0	Brass self-piercing grommets	1
223562	0	#0 plain, tooth, neck grommets	1
223468	0	Stainless steel rolled rim, spur self-piercing grommets	1
223570	0	#0 rolled grim and spur grommets	1
223561	00	#00 plain, tooth, neck grommets	1
223465	1	Brass self-piercing grommets	1
223563	1	#1 plain, tooth, neck grommets	1
223469	1	Stainless steel rolled rim, spur self-piercing grommets	1
248212	1	Rolled rim, spur grommets	1
223568	1J	#1J long barrel, plain, neck grommets	1
223466	2	Brass self-piercing grommets	1

Item Number	Style Number	For Use With	Standard Package
223499	2	Rolled rim, spur grommets	1
223470	2	Stainless steel rolled rim, spur self-piercing grommets	1
223505	2	Plain, tooth, neck grommets	1
223569	2J	#2J long barrel, plain, neck grommets	1
223467	3	Brass self-piercing grommets	1
223571	3	#3 rolled grim and spur grommets	1
223564	3	Plain, tooth, neck grommets	1
223572	4	#4 rolled grim and spur grommets	1
223471	4	Stainless steel rolled rim, spur self-piercing grommets	1
223566	5	#5 plain, tooth, neck grommets	1
223472	5	Stainless steel rolled rim, spur self-piercing grommets	1
223573	5	#5 rolled grim and spur grommets	1

DOT®, Gripper®, Lift-The-Dot® and Pull-The-Dot are registered trademarks of Scovill Fasteners, Inc. Durable™ is a trademark of Scovill Fasteners, Inc.



223510



223512

## M-380E and M200 Dies For DOT® Durable™ Fasteners

Item Number	Style Number	For Use With	Standard Package
223512	1412	BS-10370 stud	1
223507	1407	BS-10412 eyelet	1
223501	1401	X2-10128 or X2-10127 button	1
223510	1410	XB-10224 socket	1
275580	9557	XB-10342 stud	1

DOT® is a registered trademark of Scovill Fasteners, Inc. Durable™ and Baby Durable™ are trademarks of Scovill Fasteners, Inc.



223558



275577

## M-380E and M200 – Dies for DOT® Pull-The-Dot® Fasteners

Item Number	Style Number	For Use With	Standard Package
223560	8059	XX-18201 socket	1
275526	89-8101	93-10379 stud & low shelf fasteners	1
223558	9758	XE-18100 button	1
275577	9760	BS-18303 stud	1

DOT® and Pull-The-Dot® are registered trademarks of Scovill Fasteners, Inc.



223560





248185

## Fasnap® PM5 Grommet Machine

The PM5 machine is an industry standard bench-mounted machine. It is made of tough ductile iron and has a deep throat with a longer padded handle. This machine uses standard 3/8 inch diameter shank dies that set self-piercing grommets up to size 300 (#4), and snap fasteners in one motion, swiftly and efficiently. Throat depth: 4-3/4 inch. Dies sold separately

Item Number	Description	Standard Package
248185	Fasnap PM5 Grommet Machine	1

FASNAP® is a registered trademark of The FASNAP Corporation.



256094



256098

## Multi-Duty Hand Press No. W-1

This Osborne high quality hand machine cuts fabric and covers buttons. It uses 2 piece dies and short cutters. This hand machine has a reinforced frame and handle. It bolts to a table for added stability. The machine handles between 80-120 buttons per hour. It can also be used to set snaps, grommets and ventilators.

Item Number	Style Number	Description	Standard Package
256095	W-1H	Handle	1
256094	W-1	Osborne Multi-Duty Hand Press #W-1	1
256098	W-1 SPRING	Top Spring	1



256095

## Multi-Duty Hand Press No. W-1 – Dies

Dies for setting snaps, grommets, and ventilators for the Osborne Multi-Duty Hand Press #W-1 (Item# 256094).



256300



256324

Item Number	Style Number	Description	Size	Size Hole	Standard Package
216491	WDISGRC2-75837	Setting Die and Hole Cutter #2 for Spur Washer	2	3/8 in.	1
256299	WDIGRC00	Setting Die #00 For Plain Washer	00		1
256300	WDIGRC0	Setting Die #0 For Plain Washer	0		1
256301	WDIGRC1	Setting Die #1 For Plain Washer	1		1
256302	WDIGRC2	Setting Die #2 For Plain Washer	2		1
256303	WDIGRC3	Setting Die #3 For Plain Washer	3		1
256304	WDIGRC4	Setting Die #4 For Plain Washer	4		1
256320	WDISGRC0	Setting Die #0 for Spur Washer	0		1
256321	WDISGRC1	Setting Die #1 for Spur Washer	1		1
256322	WDISGRC2	Setting Die #2 for Spur Washer	2		1
256323	WDISGRC3	Setting Die #3 for Spur Washer	3		1
256324	WDISGRC4	Setting Die #4 for Spur Washer	4		1
256334	684	Ventilator 3/4 in.			1

## Pres-N-Snap®



275400



275411



275412



275413



275415



275398

Item Number	Description	For Use With	Standard Package
275411	Baby Durable Die Set		1
275398	Bench Mount		1
275401	Die	#10128 Button	1
275404	Die	#10224 Socket	1
275428	Die	#10342 Gypsy Stud	1
275402	Die	#10370 Stud	1
275397	Die	#10379 Stud	1
275403	Die	#10412 Eyelet	1
275412	Die	#BS-16509 Washer	1
275413	Die	#XB-16358 Stud	1
248167	Die	#XB-78317 Button	1
275399	Frame		1
275417	Handle		1
275427	Lever		1
275405	M-2700 Rubber Ring	DOT Durable Dies	1
275414	Nut and Bolt on Handle		1
275415	Plunger		1
275400	Pres-N-Snap Complete Toolkit		1
275409	Rubber O-Ring		1
248172	Rubber O-Ring	#12 Stud Black	1
275416	Spring		1

275400 - Includes dies for 10128, 10224, 10370, 10412 durable fasteners – plus die for No. 1 grommet with plain washer.

Pres-N-Snap® is a registered trademark of Hoover Products. DOT® is a registered trademark of Scovill Fasteners, Inc. Durable™ is a trademark of Scovill Fasteners, Inc.

## Pres-N-Snap® – Grommet Dies



275420



275425

Item Number	Description	For Use With	Standard Package
275422	Die Set	No. 0 Plain Grommets	1
275434	Die Set	No. 0 Self-Piercing Grommets	1
275421	Die Set	No. 00 Plain Grommets	1
275432	Die Set	No. 1 Grommets with Spur Washers	1
275419	Die Set	No. 1 Plain Grommets	1
275431	Die Set	No. 1 Self-Piercing Grommets	1
275420	Die Set	No. 2 Plain Grommets	1
275430	Die Set	No. 2 Self-Piercing Grommets	1
275425	Hole Punch	No. 1 Grommets	1
275426	Hole Punch	No. 2 Grommets	1

Pres-N-Snap® is a registered trademark of Hoover Products. DOT® is a registered trademark of Scovill Fasteners, Inc. Durable™ is a trademark of Scovill Fasteners, Inc.



275590



275595



275596

## Quick-Fit™ Tool Kit

Quick-Fit holding tool snaps on to existing studs and provides a quick and easy way to hold material while fitting — no clamps necessary. Quick-Fit holds material in place on the holding pin, especially on a windy day. Quick-Fit release tool easily installs and removes the holding pin from the stud. Quick-Fit tools are great for fitting with material and also holding paper or plastic when making a pattern. Can be used over and over on job after job. Can be used on boat cockpit covers, side curtains, enclosures, console covers, carpet and pickup truck tonneau covers. Quick-Fit holding tools accurately mark the fabric cover where the snap sockets are to be placed.

Quick-Fit Tool Kit includes 25 Quick-Fit Caps, 50 Quick-Fit Sockets and 1 Quick-Fit Release Tool.

Item Number	Description	Standard Package
275590	Tool Kit	1
275591	Caps	25
275595	Sockets with Points	25
275596	Release Tool	1

Quick-Fit™ is a trademark of Quick Fit Canvas Tools.



248502



248506

## Engel Hot Knife

Cuts and seals the edges of synthetic fabrics to prevent fraying. The knife can be used with a cutting foot to eliminate the need for a special cutting base or surface. Designed for intermittent operation, the knife heats up in six to eight seconds. Temperature is controlled by a convenient trigger switch. All items are sold separately.

Use in well ventilated areas.



248501

Item Number	Style Number	Description	Standard Package
248501	H/100	Engel HSG-O Electric Hot Knife Cutter	1
248502	#H/205	Engel Hot Knife Blade 100R	1
248506	C856N	Engel Hot Knife Cutting Foot	1

## Pliers – Fabric Pulling Pliers No. 250

No. 250 plier is made with a hammer jaw. The hammer acts as a lever if a strong pull is required. This is an excellent tool for stretching canvas and leather as well as webbing. It is ideal for pulling fabric over frames.



255250

Item Number	Style Number	Length	Standard Package
255250	250	8-1/2 in.	1



256440

## Revolving Punch No. 155

Used to punch holes in soft fabrics and leather goods. Made for tube sizes 1, 2, 3, 4, 5 and 6. The frame is made of highly polished forged steel. The cutting tubes are hand turned from high carbon tool steel and threaded to allow easy replacement.

Item Number	Style Number	Length	Standard Package	Weight
256440	155	8-1/2 in.	1	1 lb.



256452

## Revolving Punch No. 155 – Cutting Tube Kit

Item Number	Style Number	Standard Package
256452	155T	1



256442

## Revolving Punch No. 155 – Cutting Tubes

Item Number	Style Number	Size	Standard Package
256441	155T-1	3/32 in.	1
256442	155T-2	7/64 in.	1
256443	155T-3	1/8 in.	1
256444	155T-4	5/32 in.	1
256445	155T-5	11/64 in.	1
256446	155T-6	3/16 in.	1



256448

## Revolving Punch No. 155 – Punch Anvil

A copper replacement base for the No. 155 Revolving Punch. The soft copper composition of this base is gentle on dies to provide longer service life.

Item Number	Style Number	Standard Package
256448	155A	1



214301

## Thread Nippers

This 4.5-inch thread snip is sharp enough to trim even the finest fiber. Hot forged and fully double-plated with chrome over nickel, it's an essential sewing tool. The ball-bearing construction features a quick action spring return and precision ground blades.

With an ergonomic design and built-in thumb rest, the scissors are efficient and easy to handle. This means you can focus more on your craft and less on fraying thread. The nippers can withstand repeated sharpening for a smooth cut every time. Use for clipping threads or other light cutting functions.

Item Number	Full Length	Standard Package
214301	4-1/2 in.	10



266225

## Shears – Wiss® Upholstery, Carpet And Fabric Shears

Hot drop-forged, polished blades. One blade is ground to a knife-edge.

To attain the extra sharp knife edge, the cutting edge of the top blade is ground to a greater angle than regular shears. For this reason they will require more frequent sharpening than conventional Wiss Inlaid® Trimmers. However, a simple resharpening procedure will restore the edge quickly and easily. Do not stone the inside of this blade or the opposing blade.

Item Number	Style Number	Full Length	Length of Cut	Standard Package
266225	1225	10-1/4 in.	4-3/4 in.	1
266226	1226	12-1/4 in.	6-1/8 in.	1

Wiss® and Inlaid® are registered trademarks of Apex Brands, Inc.



266022

## Shears – Wiss® Upholstery, Drapery, Carpet And Fabric Shears – Heavy Duty

With thick, heavy-duty blades to cut through multiple layers and tough material. Hot drop-forged, polished standard edge blades.

To attain the extra sharp knife edge, the cutting edge of the top blade is ground to a greater angle than regular shears. For this reason they will require more frequent sharpening than conventional Wiss Inlaid® Trimmers. However, a simple resharpening procedure will restore the edge quickly and easily. Do not stone the inside of this blade or the opposing blade.

Item Number	Style Number	Full Length	Length of Cut	Standard Package
266019	20W	10-1/4 in.	4-3/4 in.	1
266022	22W	12-1/4 in.	6-1/8 in.	1

Wiss® and Inlaid® are registered trademarks of Apex Brands, Inc.



266027

## Shears – Wiss® Industrial Shears

Hot drop-forged, nickel-plated shears with standard edge blades.

To attain the extra sharp knife edge, the cutting edge of the top blade is ground to a greater angle than regular shears. For this reason they will require more frequent sharpening than conventional Wiss Inlaid® Trimmers. However, a simple resharpening procedure will restore the edge quickly and easily. Do not stone the inside of this blade or the opposing blade.

Item Number	Style Number	Full Length	Length of Cut	Standard Package
266027	27	7-1/2 in.	3-1/8 in.	1
266028	28	8-1/8 in.	3-3/4 in.	1

Wiss® and Inlaid® are registered trademarks of Apex Brands, Inc.



266020

## Shears – Wiss® Industrial Shears – Heavy Duty

Hot drop-forged, polished standard edge blades, with black handles. Style 20 LH is the left-handed version.

To attain the extra sharp knife edge, the cutting edge of the top blade is ground to a greater angle than regular shears. For this reason they will require more frequent sharpening than conventional Wiss Inlaid® Trimmers. However, a simple resharpening procedure will restore the edge quickly and easily. Do not stone the inside of this blade or the opposing blade.

Item Number	Style Number	Full Length	Length of Cut	Standard Package
266020	20	10-1/4 in.	4-3/4 in.	1
266021	20LH	10-1/4 in.	4-3/4 in.	1

Wiss® and Inlaid® are registered trademarks of Apex Brands, Inc.



266016

## Shears – Wiss® Shop Shears

Serrated bladed shears.

Item Number	Style Number	Full Length	Standard Package
266016	W912	10 in.	1

Wiss® is a registered trademark of Apex Brands, Inc.



266233

## Shears – Kretzer®

Kretzer Scissors is the leading German scissors manufacturer. The quality and durability of these shears are only two of many aspects associated with German craftsmanship.

Item Number	Style Number	Description	Full Length	Standard Package	Weight
266232	73725	Shop Shears	10 in.	1	9 oz.
266233	K22	Trim Shears	12 in.	1	1 lb. 15 oz.
266234	K20	Trim Shears	10 in.	1	15 oz.
266235	KRE764425	Pinking Shears	10-1/2 in.	1	8 oz.
266236	72020	Trim Shears	8 in.	1	4 oz.
266237	KRE773225	Heavy Duty Shop Shears	10 in.	1	9 oz.

Kretzer® is a registered trademark of Johann Kretzer GmbH & Co.

## Staple Remover

Forged from 4140 alloy tempered steel.



268100

Item Number	Style Number	Standard Package
268100	124	1



275599



## Top-Snapper®

Built of marine-grade stainless steel with an easy to grip rubberized handle, makes snapping your canvas boat top into place easy and convenient. Just slide the ingenious, patented Top-Snapper over the snap, pull it into place, and snap it shut.

Item Number	Style Number	Standard Package
275599	008.1	1

Top-Snapper® is a registered trademark of Ironwood Pacific Inc.

## Cutter – Side Cutter

Typically used for plain and tooth grommet washers. For best results use Cutting Pad (Item no. 223449). Do not use with steel head hammers.



216400

Item Number	Style Number	Size Hole	Standard Package
216400	00	3/16 in.	1
216401	0	1/4 in.	1
216402	1	9/32 in.	1
216403	2	3/8 in.	1
216404	3	7/16 in.	1
216405	4	1/2 in.	1
216406	5	5/8 in.	1
216407	6	3/4 in.	1
216409	8	1 in.	1

## Cutter – Special Cutter

Typically used for rolled rim spur grommet washers. For best results use Cutting Pad (Item no. 223449). Do not use with steel head hammers.



216504

Item Number	Style Number	Size Hole	Standard Package
216499	00	3/16 in.	1
216501	0	1/4 in.	1
216502	1	5/16 in.	1
216503	2	3/8 in.	1
216504	3	7/16 in.	1
216505	4	1/2 in.	1
216506	5	5/8 in.	1
216507	6	3/4 in.	1
216508	7	7/8 in.	1
216509	8	1 in.	1



## DOT® Die Set Hand Tools

Use this DOT die set to install various sized grommets with either plain, tooth or neck washers. Use the grommet dies with a rawhide mallet and a urethane cutting pad (sold separately, #223449) to avoid damage to the die.

For stainless steel grommets, die sets are applicable to self-piercing grommets only.

223549

Item Number	Style Number	For Use With	Standard Package
223549	0	Stainless steel rolled rim grommets	1
223531	0	Plain, tooth, neck grommets	1
223540	0	Rolled rim, spur grommets	1
223530	00	Plain, tooth, neck grommets	1
223550	1	Stainless steel rolled rim grommets	1
223541	1	Rolled rim, spur grommets	1
223532	1/1J	Long-barrel with plain, tooth, neck grommets	1
223551	2	Stainless-steel self-piercing rolled rim grommets (must pre-punch holes)	1
223542	2	Rolled rim, spur grommets	1
223533	2/2J	Long-barrel with plain, tooth, neck grommets	1
223543	3	Rolled rim, spur grommets	1
223534	3	Plain, tooth, neck grommets	1
223552	3	Stainless-steel self-piercing rolled rim grommets (must pre-punch holes)	1
223535	4	Plain, tooth, neck grommets	1
223544	4	Rolled rim, spur grommets	1
223553	4		1
223545	5	Rolled rim, spur grommets	1
223559	5	Stainless-steel self-piercing rolled rim grommets (must pre-punch holes)	1
223536	5	Plain, tooth, neck grommets	1
223546	6	Rolled rim, spur grommets	1
223547	7	Rolled rim, spur grommets	1
223548	8	Rolled rim grommets, spur washers	1

DOT® is a registered trademark of Scovill Fasteners, Inc.

## Setting Die For Plain And Tooth Grommets And Washers



For inserting round grommets. Made of superior grade drop forged steel.

Setting Dies are guaranteed against defects in material and workmanship, but this guarantee is not intended to cover tools against wear, over-strain or steel hammering. To obtain maximum life of tools use Rawhide Mallet, Cutting Pad and strike at 90 degree angle.

223410

Item Number	Style Number	Description	Standard Package
223410	00	Osborne #216	1
223411	0	Osborne #216	1
223412	1	Osborne #216	1
223413	2	Osborne #216	1
223414	3	Osborne #216	1
223415	4	Osborne #216	1
223416	5	Osborne #216	1
223417	6	Osborne #216	1





223423

## Setting Die For Rolled Rim Grommets And Spur Washers

For inserting round grommets. Made of superior grade drop forged steel.

Setting Dies are guaranteed against defects in material and workmanship, but this guarantee is not intended to cover tools against wear, over-strain or steel hammering. To obtain maximum life of tools use Rawhide Mallet, Cutting Pad and strike at 90 degree angle.

Item Number	Style Number	Description	Standard Package
223420	0	Osborne #217	1
223421	1	Osborne #217	1
223422	2	Osborne #217	1
223423	3	Osborne #217	1
223424	4	Osborne #217	1
223425	5	Osborne #217	1
223426	6	Osborne #217	1
223427	7	Osborne #217	1
223428	8	Osborne #217	1



216490

## Punch Kit – Self-Centering

This handy and versatile kit contains a threaded handle with self-centering pointed plunger. Designed to accommodate nine interchangeable threaded cutting tubes in diameter sizes of 1/4 inch, 5/16 inch, 3/8 inch, 7/16 inch, 1/2 inch, 5/8 inch, 3/4 inch, 7/8 inch and 1 inch. The punches in this set will cleanly cut fabric, leather, rubber, paper, plastic and other soft materials.

Item Number	Style Number	Standard Package
216490	K156	1



248102

## Grommet Kit – Home

A complete and inexpensive kit for household use. Each kit consists of a grommet die, a cutting punch, 3 dozen grommets and washers, a small cutting board and complete instructions.

Item Number	Style Number	Grommet Size	Standard Package	Weight
248100	0	1/4 in.	1	1-1/2 lbs.
248101	1	9/32 in.	1	1-1/2 lbs.
248102	2	3/8 in.	1	1/3/4 lbs.
248103	3	7/16 in.	1	1/3/4 lbs.
248104	4	1/2 in.	1	1/3/4 lbs.

## Mallet/Maul – Rawhide



250801

Item Number	Style Number	Description	Standard Package	Weight
250809	196-2	Mallet	1	
250804		Maul Handle	1	
250806	393-3RR	Maul Leather Refill	1	
250808	393-6RR	Maul Leather Refill	1	
250807	393-2RR	Maul Leather Refill	1	
250800	393-2	Maul	1	2 lbs.
250801	393-3	Maul	1	2-12/ lbs.
250802	393-4	Maul	1	4-1/2 lbs.
250803	393-6	Maul	1	6 lbs.

## Hammer – Rawhide With Split Head – No. 395



237015

Ideal for use with arch punches, grommet dies or wherever a cushioned blow is desired. No trouble to replace faces. Just loosen the safety nut, remove worn face, insert replacement and tighten.

Item Number	Style Number	Diameter of Face	Size	Standard Package	Weight
237013	395-1	1-1/4 in.	1	1	
237014	395-2	1-1/2 in.	2	1	2 lbs.
237015	395-3	1-3/4 in.	3	1	3 lbs.

## Hammer – Rawhide Replacement Heads



237021

Item Number	Style Number	Size	Standard Package
237020	395F-1	1	1
237021	395F-2	2	1
237022	395F-3	3	1

## Hammer – Magnetic Tack



237016

Item Number	Style Number	Description	Standard Package
237016	33	Magnetic Tack Hammer	1

## Cutting Pad



223449

Made of a special formula resilient vinyl plastic, these tough cutting pads are ideal for use with Osborne Punches. They are long wearing and can be used on both sides. Use on a solid base for best results.

Item Number	Style Number	Material	Size	Standard Package
223449	603	Urethane	10 in. x 10 in. x 3/8 in.	1

## Bendarc Quick-Switch Bender



205304

The Bendarc bends a 6, 8, 10 or 12 inch radius on either 7/8, 1, or 1-1/4 inch OD aluminum or stainless steel marine tubing. Designed for wall or bench mounting. Bends are formed using a long handle for leverage and with the aid of body weight. The Bendarc gives strong bends with smooth, rounded corners. Constructed of boiler plate steel with bearing supported roller. Rollers are high-density polymer for mar resistant contact with fine tubing finishes.

Interchangeable forming blocks, clamp blocks and rollers are also available to convert from a 6 inch radius to 8 inch or 10 inch, and a 7/8 inch OD tube to 1 inch OD. Switch sizes easily and quickly with only an Allen wrench and a 1/2 inch socket. Once forming block replacement is installed, only a finger tight adjustment of a nut on the clamp block is required.

Items are drop ship only.

Item Number	Description	For	Radius	Standard Package
205349	Bearing Support Roller	1 in. or 1-1/4 in. square tubing		1
205347	Bearing Support Roller	1-1/4 in. round tubing		1
205348	Bearing Support Roller	7/8 in. or 1 in. round tubing		1
205345	Clamp Block Assembly	1 in. or 1-1/4 in. square tubing		1
205344	Clamp Block Assembly	7/8 in. or 1 in. round tubing		1
205340	Form Block	7/8 in. or 1 in. round tubing	10 in.	1
205366	Form Block	1 in. square tubing	12 in.	1
205343	Form Block	7/8 in. or 1 in. round tubing	12 in.	1
205332	Form Block	7/8 in. or 1 in. round tubing	6 in.	1
205336	Form Block	7/8 in. or 1 in. round tubing	8 in.	1
205352	Pull Down Handle			1
205337	Steel Encased Form Block	1 in. square tubing	10 in.	1
205321	Tube Bender With Steel Encased Form Block	1 in. square tubing	10 in.	1
205319	Tube Bender With Steel Encased Form Block	1 in. or 1-1/4 in. square tubing	12 in.	1
205313	Tube Bender	1-1/4 in. round tubing	10 in.	1
205320	Tube Bender	7/8 in. or 1 in. round tubing	10 in.	1
205315	Tube Bender	7/8 in. or 1 in. round tubing	12 in.	1
205365	Tube Bender	1-1/4 in. square tubing	12 in.	1
205304	Tube Bender	1 in. round tubing	6 in.	1
205316	Tube Bender	7/8 in. round tubing	8 in.	1
205314	Tube Bender	7/8 in. tubing	8 in.	1

## Crownarc Crown Bender



205362

Bends 7/8 inch, 1 inch or 1-1/4 inch outside diameter marine tubing using the same dies. The crown radius is adjustable from 30 inch minimum to infinity. The only Crowner with gear drive; Crownarc's crank turns both lower wheels and "takes a bigger bite" to get more crown per pass. The Z wheel drive system makes control much easier. The back plate is boiler plate steel and rollers are high-density polymer for mar resistant contact with fine marine tubing. The center roller is fully adjustable.

The Crownarc is supplied with rollers cut for 1 inch diameter marine tubing. This easily crowns 1 inch and 7/8 inch stainless or aluminum marine tubing. Bender can be mounted on the wall, on a table or on the side or rear of a truck.

Items are drop ship only.

Item Number	Description	For	Standard Package
205329	Gear Mounted Roller	1 in. square tubing	1
205367	Gear Mounted Roller	1 in. square tubing	1
205360	Hand Grip		1
205327	Tube Bender	1 in. square tubing	1
205362	Tube Bender	1-1/4 in. round tubing	1
205325	Tube Bender	7/8 in. and 1 in. tubing	1

## Hand Roller



999075

This silicone hand roller is used for smoothing fabric, welding tape, or adhesive. The hand tool features an easy-roll silicone head and ergonomic wooden handle.

Item Number	Style Number	Material	Standard Package	Width
999075	11-150	Silicone	1	1.75 in.