



5 RAIL FITTINGS

MEETING OF THE WATERS

The Encontro das Aguas in Brazil, or the "Meeting of the Waters," is one of those places on Earth where you just say: "Wow!"

"Six Mississippi's worth of cafe-au-lait-colored water are converging here with two Mississippi's worth of black-tea-colored water to produce the greatest hydrologic spectacle on the planet," said Robert Meade, who spent decades studying rivers for the U.S. Geological Survey. "Put in terms of the sheer quantities of water, what we are seeing here is a volume of water at least a dozen times greater than the total of the water falling over the Niagara, Iguassu, and Victoria Falls combined."

The coffee-colored water, rich with sediment, runs down from the Andes Mountains on the Rio Solimões. The black-tea water from the Colombian hills and interior jungles is nearly sediment-free and colored by decayed leaf and plant matter; it bears the name Rio Negro. Where the two rivers meet, east of Manaus, Brazil, they flow side by side within the same channel for several kilometers. The cooler, denser, and faster waters of the Solimões and the warmer, slower waters of the Negro form a boundary visible from space and from the water surface itself. Turbulent eddies driven by the faster-moving whitewater eventually mix the two, as they merge to become the Lower Amazon River.



BIMINI FITTINGS

Die Cast Zinc Chrome Plated



Bulk	Display	Description	Tube O.D.*	Pin Size	Pin/Screw Part #	Fastener	Wt.(lb.)	Std. Pack
276100	276100-1	Top Cap	7/8"	1/4"	n/a	n/a	.12 / .24	10 ea / 10 pr
276180	276180-1	Top Insert	7/8"	1/4"	n/a	n/a	.12 / .24	10 ea / 10 pr
276160	276160-1	Jaw Slide	7/8"	1/4"	OP27001	n/a	.14 / .28	10 ea / 10 pr
276200	276200-1	90° Deck Hinge	Base: 3/4" x 2-1/4"	1/4"	OP27601	#10 FH	.10 / .20	10 ea / 10 pr
276250	276250-1	Side Mount Deck Hinge	Base: 1" x 2"	1/4"	OP27601	#10 FH	.07 / .14	10 ea / 10 pr

BULK DIE CAST ZINC FITTINGS DO NOT INCLUDE SET SCREWS. Set Screws can be purchased separately (299999-1) or the fittings can be pop riveted using stainless or aluminum rivets. Skin pack fittings include set screws.

* Stainless tube wall thickness .049"

RAIL BASE FITTINGS

Die Cast Zinc Chrome Plated



Bulk	Display	Description	Tube O.D.*	Base	Fastener	Wt.(lb.)	Std. Pack
286030	286030-1	30° Round Base	7/8"	2-5/8"	#10 FH	.38	10 ea
286060	286060-1	60° Round Base	7/8"	2-5/8"	#10 FH	.32	10 ea
286090	286090-1	90° Round Base	7/8"	2-5/8"	#10 FH	.36	10 ea
286130	286130-1	30° Rectangular Base	7/8"	1-5/8" x 2-3/4"	#10 FH	.31	10 ea
286145	286145-1	45° Rectangular Base	7/8"	1-5/8" x 2-3/4"	#10 FH	.26	10 ea
286160	286160-1	60° Rectangular Base	7/8"	1-5/8" x 2-3/4"	#10 FH	.28	10 ea
286190	286190-1	90° Rectangular Base	7/8"	1-5/8" x 2-3/4"	#10 FH	.31	10 ea

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* Stainless tube wall thickness .049"

HAND RAIL FITTINGS

Die Cast Zinc Chrome Plated



Bulk	Display	Description	Rail Height	Tube O.D.*	Fastener	Wt.(lb.)	Std. Pack
286290	286290-1	Bullet End	n/a	7/8"	n/a	.06	10 ea
286560	286560-1	60° Center	2-1/8"	7/8"	#10 FH	.24	10 ea
286565	286565-1	60° End - Left Hand Set Screw	2-1/8"	7/8"	#10 FH	.26	10 ea
286566	286566-1	60° End - Right Hand Set Screw	2-1/8"	7/8"	#10 FH	.26	10 ea
286955	286955-1	5-1/2° Blend Base	n/a	7/8"	#10 FH	.35	10 ea

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RAIL TEES, ELBOWS & BOW FORMS

Die Cast Zinc Chrome Plated



Bulk	Display	Description	Tube O.D.*	Wt.(lb.)	Std. Pack
296090	296090-1	90° Tee	7/8"	.28	10 ea
296095	296095-1	90° Elbow	7/8"	.29	10 ea
296160	296160-1	60° Tee - Left Hand	7/8"	.28	10 ea
296260	296260-1	60° Tee - Right Hand	7/8"	.28	10 ea
296510	296510-1	110° Bow Form	7/8"	.59	5 ea

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* Stainless tube wall thickness .049"

TOP FITTINGS

Injection Molded Nylon



Bulk	Display	Description	Color	Tube O.D.*	Pin Size	Wt.(lb.)	Std. Pack
273100	273100-1	Top Cap	Black	7/8"	1/4"	.04 / .08	10 ea / 10 pr
273101	273101-1	Top Cap	White	7/8"	1/4"	.04 / .08	10 ea / 10 pr
273110	273110-1	Top Cap	Black	3/4"	1/4"	.02 / .04	10 ea / 10 pr
273111	273111-1	Top Cap	White	3/4"	1/4"	.02 / .04	10 ea / 10 pr
273175	273175-1	Top Insert	Black	3/4"	1/4"	.02 / .04	10 ea / 10 pr
273176	273176-1	Top Insert	White	3/4"	1/4"	.02 / .04	10 ea / 10 pr
273180	273180-1	Top Insert	Black	7/8"	1/4"	.03 / .06	10 ea / 10 pr
273181	273181-1	Top Insert	White	7/8"	1/4"	.03 / .06	10 ea / 10 pr
273580	273580-1	Square tube Top Insert	Black	1" (7/8" x 7/8" Inside)	1/4"	.03 / .06	10 ea / 10 pr
273581	273581-1	Square tube Top Insert	White	1" (7/8" x 7/8" Inside)	1/4"	.03 / .06	10 ea / 10 pr

* Stainless tube wall thickness .049"

SLIDE FITTINGS

Injection Molded Nylon



Bulk	Display	Description	Color	Tube O.D.*	Pin Size	Pin/Screw Part #	Wt.(lb.)	Std. Pack
273160	273160-1	Jaw Slide	Black	7/8"	3/16"	OP27301	.07 / .14	10 ea / 10 pr
273161	273161-1	Jaw Slide	White	7/8"	3/16"	OP27301	.07 / .14	10 ea / 10 pr
273162	273162-1	Hinged Jaw Slide w/Bolt	Black	7/8"	1/4"	OP27001	.07	10 ea
273165	273165-1	Jaw Slide	Black	3/4"	3/16"	OP27301	.04 / .08	10 ea / 10 pr
273166	273166-1	Jaw Slide	White	3/4"	3/16"	OP27301	.04 / .08	10 ea / 10 pr
273560	273560-1	Square Tube Jaw Slide	Black	1" x 1" (Outside)	3/16"	OP27301	.08 / .16	10 ea / 10 pr
273561	273561-1	Square Tube Jaw Slide	White	1" x 1" (Outside)	3/16"	OP27301	.08 / .16	10 ea / 10 pr

* Stainless tube wall thickness .049"

TOP MOUNT HINGE FITTINGS

Injection Molded Nylon



Bulk	Display	Description	Color	Base Width	Base Length	Pin Size	Pin/Screw Part #	Fastener	Wt.(lb.)	Std. Pack
273200	273200-1	Large Deck Hinge	Black	13/16"	2-7/16"	3/16"	OP27301	#10 FH	.04 / .08	10 ea / 10 pr
273201	273201-1	Large Deck Hinge	White	13/16"	2-7/16"	3/16"	OP27301	#10 FH	.04 / .08	10 ea / 10 pr
273205	273205-1	Small Deck Hinge	Black	13/16"	2-3/8"	3/16"	OP27301	#10 FH	.03 / .06	10 ea / 10 pr
273206	273206-1	Small Deck Hinge	White	13/16"	2-3/8"	3/16"	OP27301	#10 FH	.03 / .06	10 ea / 10 pr
273230	273230-1	Large Deck Hinge/10° Angled	Black	7/8"	2-7/16"	3/16"	OP27301	#10 FH	.04 / .08	10 ea / 10 pr
273231	273231-1	Large Deck Hinge/10° Angled	White	7/8"	2-7/16"	3/16"	OP27301	#10 FH	.04 / .08	10 ea / 10 pr
273240	273240-1	7/8" Concave Deck Hinge	Black	13/16"	2-7/16"	3/16"	OP27301	#10 FH	.06 / .12	10 ea / 10 pr
273241	273241-1	7/8" Concave Deck Hinge	White	13/16"	2-7/16"	3/16"	OP27301	#10 FH	.06 / .12	10 ea / 10 pr

SIDE MOUNT HINGE FITTINGS

Injection Molded Nylon



Bulk	Display	Description	Color	Base Width	Base Length	Pin Size	Pin/Screw Part #	Fastener	Wt.(lb.)	Std. Pack
273250	273250-1	Deck Hinge	Black	7/8"	2-7/16"	1/4"	OP27303	#10 FH	.04 / .08	10 ea / 10 pr
273251	273251-1	Deck Hinge	White	7/8"	2-7/16"	1/4"	OP27303	#10 FH	.04 / .08	10 ea / 10 pr
273255	273255-1	Four Hole Side Mount Deck Hinge	Black	1-3/4"	2"	1/4"	OP27303	#10 FH	.05 / .10	10 ea / 10 pr
273256	273256-1	Four Hole Side Mount Deck Hinge	White	1-3/4"	2"	1/4"	OP27303	#10 FH	.05 / .10	10 ea / 10 pr

TRACK FITTINGS

Injection Molded Nylon



Bulk	Display	Description	Color	Base Width	Base Length	Fastener	Wt.(lb.)	Std. Pack
273211	273211-1	End Cap Cover	Black	1"	1-5/16"	#8 FH	.01 / .02	10 ea / 10 pr
273212	273212-1	End Cap Cover	White	1"	1-5/16"	#8 FH	.01 / .02	10 ea / 10 pr
273213	273213-1	.85 Track End Cap Stop	Black	7/8"	1-1/4"	#8 FH	.01 / .02	10 ea / 10 pr
273214	273214-1	.85 Track End Cap Stop	White	7/8"	1-1/4"	#8 FH	.01 / .02	10 ea / 10 pr
273220	273220-1	.85 Track Slide	Black	11/16"	2-3/8"	n/a	.01 / .02	10 ea / 10 pr
273221	273221-1	.85 Track Slide	White	11/16"	2-3/8"	n/a	.01 / .02	10 ea / 10 pr

TRACK MOUNT HINGE FITTINGS

Injection Molded Nylon



Bulk	Display	Description	Color	Base Width	Base Length	Pin Size	Pin/Screw #	Thumb Screw #	Wt.(lb.)	Std. Pack
273260	273260-1	Side Mount Slide - .850 track	Black	7/8"	2-1/4"	1/4"	OP27303	n/a	.05 / .10	10 ea / 10 pr
273261	273261-1	Side Mount Slide - .850 track	White	7/8"	2-1/4"	1/4"	OP27303	n/a	.05 / .10	10 ea / 10 pr
273265	273265-1	Side Mount Slide - 1.050 track	Black	1"	2-1/4"	1/4"	OP27303	n/a	.05 / .10	10 ea / 10 pr
273266	273266-1	Side Mount Slide - 1.050 track	White	1"	2-1/4"	1/4"	OP27303	n/a	.05 / .10	10 ea / 10 pr
273270	273270-1	Deck Hinge Slide - .850 track	Black	7/8"	2-7/16"	3/16"	OP27301	n/a	.05 / .10	10 ea / 10 pr
273271	273271-1	Deck Hinge Slide - .850 track	White	7/8"	2-7/16"	3/16"	OP27301	n/a	.05 / .10	10 ea / 10 pr
273280	n/a	Deck Hinge Slide - .850 track -Starbrd	Black	7/8"	2-7/16"	3/16"	OP27301	OP27302	.06	10 ea
273281	n/a	Deck Hinge Slide - .850 track -Starbrd	White	7/8"	2-7/16"	3/16"	OP27301	OP27302	.06	10 ea
273290	n/a	Deck Hinge Slide - .850 track -Port	Black	7/8"	2-7/16"	3/16"	OP27301	OP27302	.06	10 ea
273291	n/a	Deck Hinge Slide - .850 track -Port	White	7/8"	2-7/16"	3/16"	OP27301	OP27302	.06	10 ea
n/a	273285-1	Deck Hinge Slide - .850 track -Stbd & Prt	Black	7/8"	2-7/16"	3/16"	OP27301	OP27302	.12	10 pr
n/a	273286-1	Deck Hinge Slide - .850 track -Stbd & Prt	White	7/8"	2-7/16"	3/16"	OP27301	OP27302	.12	10 pr
273295	273295-1	.85 Track Slide Lock	Black	11/16"	13/16"	n/a	n/a	OP27302	.02 / .04	10 ea / 10 pr
273296	273296-1	.85 Track Slide Lock	White	11/16"	13/16"	n/a	n/a	OP27302	.02 / .04	10 ea / 10 pr
273630	273630-1	Curved Windshield Hinge	Black	n/a	n/a	3/16"	OP27301	n/a	.07 / .14	10 ea / 10 pr

TUBE CONNECTORS

Injection Molded Nylon



Bulk	Display	Description	Color	Tube O.D.*	Length	Wt.(lb.)	Std. Pack
273310	273310-1	Tube Connector - 3/4"	Black	3/4"	2-1/4"	.02 / .04	10 ea / 10 pr
273311	273311-1	Tube Connector - 3/4"	White	3/4"	2-1/4"	.02 / .04	10 ea / 10 pr
273300	273300-1	Tube Connector - 7/8"	Black	7/8"	2-1/4"	.04 / .08	10 ea / 10 pr
273301	273301-1	Tube Connector - 7/8"	White	7/8"	2-1/4"	.04 / .08	10 ea / 10 pr

* Stainless tube wall thickness .049"

QUICK RELEASE SIDE MOUNT EYE END & BRACKET

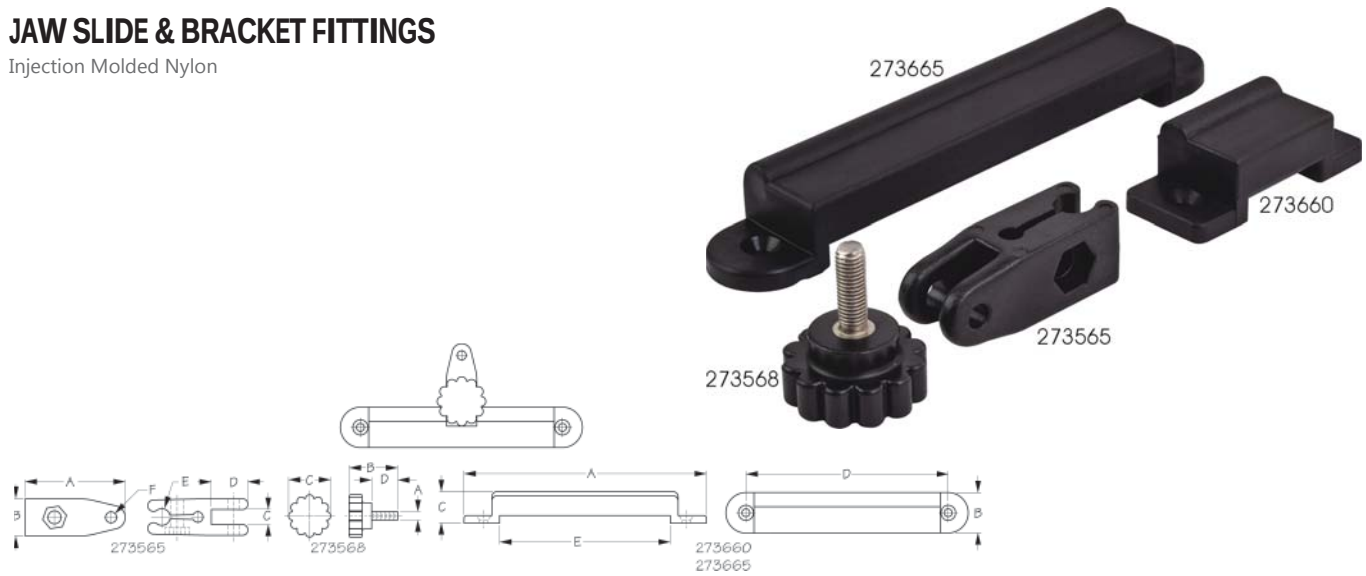
Injection Molded Nylon



Bulk	Display	Description	Color	Tube O.D.*	Hole Space	Fastener	Wt.(lb.)	Std. Pack
273350	273350-1	90° Inside Eye End	Black	3/4"	n/a	n/a	.03 / .06	10 ea / 10 pr
273351	273351-1	90° Inside Eye End	White	3/4"	n/a	n/a	.03 / .06	10 ea / 10 pr
273369	273369-1	90° Inside Eye Bracket	Black	n/a	15/16"	#8 FH	.01 / .02	10 ea / 10 pr
273370	273370-1	90° Inside Eye Bracket	White	n/a	15/16"	#8 FH	.01 / .02	10 ea / 10 pr

JAW SLIDE & BRACKET FITTINGS

Injection Molded Nylon



Bulk	Display	Description	A	B	C	D	E	F	Wt.(lb.)	Std. Pack
273565	273565-1	Bracket Mount Jaw Slide	2-1/16"	3/4"	5/16"	3/4"	3/8"	1/4"	.03 / .06	10 ea / 10 pr
273568	273568-1	Head Screw	1/4"-28	1-3/8"	1-3/16"	3/4"	n/a	n/a	.03 / .06	10 ea / 10 pr
273660	273660-1	Slide Bracket	2-3/8"	1"	13/16"	1-11/16"	1"	n/a	.03 / .06	10 ea / 10 pr
273665	273665-1	Slide Bracket	6"	1"	3/4"	5"	4-3/16"	n/a	.06 / .12	10 ea / 10 pr

Part numbers 273660 & 273665 use #8 FH fasteners.

TOP FITTINGS

Investment Cast 316 Stainless



Bulk	Display	Description	Tube O.D.*	Pin Size	Wt.(lb.)	Std. Pack
270100	270100-1	Top Cap	7/8"	1/4"	.20	10 ea
270101	270101-1	Top Cap	1"	1/4"	.28	10 ea
270102	n/a	Top Cap	1-1/4"	5/16"	.44	10 ea
270103	n/a	Top Cap	1-1/8"	5/16"	.26	10 ea
270111	270111-1	Top Cap Heavy Duty	1"	5/16"	.23	10 ea
270175	270175-1	Top Insert	3/4"	1/4"	.09	10 ea
270180	270180-1	Top Insert	7/8"	1/4"	.15	10 ea
270191	270191-1	Square Tube Top Insert	1-1/4" (1" x 1" inside)	1/4"	.19	10 ea

* Stainless tube wall thickness .049"

SLIDE FITTINGS

Investment Cast 316 Stainless



Bulk	Display	Description	Tube O.D.*	Pin Size	Pin/Screw Part #	Wt.(lb.)	Std. Pack
270160	270160-1	Jaw Slide with Bolt	7/8"	1/4"	0P27001	.27	10 ea
270161	270161-1	Jaw Slide with Bolt	1"	1/4"	0P27001	.29	10 ea
270162	n/a	Jaw Slide with Bolt	1-1/4"	5/16"	0P27003	.42	10 ea
270163	n/a	Jaw Slide with Bolt	1-1/8"	5/16"	0P27003	.30	10 ea
270165	270165-1	Jaw Slide with Bolt	3/4"	1/4"	0P27001	.15	10 ea
270166	270166-1	Hinged Jaw Slide with Bolt	7/8"	1/4"	0P27001	.29	10 ea
270167	270167-1	Hinged Jaw Slide with Bolt	1"	1/4"	0P27001	.38	10 ea
270168	n/a	Hinged Jaw Slide with Bolt	1-1/8"	5/16"	0P27003	.37	10 ea
270171	270171-1	Jaw Slide with Bolt-Heavy Duty	1"	5/16"	0P27003	.28	10 ea

* Stainless tube wall thickness .049"

TOP MOUNT HINGE FITTINGS

Investment Cast 316 Stainless



Bulk	Display	Description	Base	Pin Size	Pin/Screw Part #	Fastener	Wt.(lb.)	Std. Pack
270200	270200-1	90° Deck Hinge	3/4" x 2-1/4"	1/4"	0P27001	#10 FH	.24	10 ea
270205	270205-1	90° Deck Hinge Heavy Duty	1" x 2-1/16"	5/16"	0P27004	1/4" FH	.24	10 ea
270210	270210-1	90° Deck Hinge (Removable Pin)	3/4" x 2-1/4"	1/4"	0P27002	#10 FH	.23	10 ea
270230	270230-1	10° Angle Base Deck Hinge	3/4" x 2-1/4"	1/4"	0P27001	#10 FH	.23	10 ea
270235	270235-1	10° Angle Base Deck Hinge (Removable Pin)	3/4" x 2-1/4"	1/4"	0P27002	#10 FH	.23	10 ea
270240	270240-1	1" Concave Base Deck Hinge	3/4" x 2-1/4"	1/4"	0P27001	#10 FH	.19	10 ea
270245	270245-1	1" Concave Base Deck Hinge (Removable Pin)	3/4" x 2-1/4"	1/4"	0P27002	#10 FH	.19	10 ea
270260	270260-1	180° Adjustable Angle Deck Hinge	1" x 2-3/4"	1/4"	0P27001	#10 FH	.10	10 ea

SIDE MOUNT HINGE FITTINGS

Investment Cast 316 Stainless



Bulk	Display	Description	Base	Pin Size	Pin/Screw Part #	Fastener	Wt.(lb.)	Std. Pack
270250	270250-1	Side Mount Deck Hinge	7/8" x 2"	1/4"	OP27006	#10 FH	.14	10 ea
270255	270255-1	Side Mount Deck Hinge - Heavy Duty	1-7/8" x 2-13/16"	5/16"	OP27005	1/4" FH	.33	10 ea

LIFELINE FITTINGS

Investment Cast 316 Stainless



Bulk	Display	Description	Tube O.D.*	Base	Eye Diameter	Pin Size	Pin/Screw #	Fastener	Wt.(lb.)	Std. Pack
270500	270500-1	Stanchion Eye Insert	1"	n/a	1/2"	n/a	n/a	n/a	.18	10 ea
270505	270505-1	Stanchion Eye	1"	n/a	1/2"	n/a	n/a	n/a	.21	10 ea
270510	270510-1	Stanchion Cap	7/8"	n/a	5/16"	n/a	n/a	n/a	.21	10 ea
270511	270511-1	Stanchion Cap	1"	n/a	5/16"	n/a	n/a	n/a	.21	10 ea
270520	270520-1	Clevis Slide	7/8"	n/a	n/a	1/4"	OP27007	n/a	.20	10 ea
270521	270521-1	Clevis Slide	1"	n/a	n/a	1/4"	OP27007	n/a	.23	10 ea
270530	270530-1	Stanchion Sleeve with Eye	7/8"	n/a	3/8"	n/a	n/a	n/a	.17	10 ea
270531	270531-1	Stanchion Sleeve with Eye	1"	n/a	3/8"	n/a	n/a	n/a	.30	10 ea
270540	270540-1	4° Rectangular Base	1"	2-13/16" x 3-9/16"	n/a	n/a	n/a	1/4" FH	1.13	5 ea
270550	270550-1	Life Line Base	n/a	2-7/16" x 1-1/2"	3/8"	n/a	n/a	#10 FH	.24	10 ea
270560	270560-1	Jaw Socket (Wire Size 5/16")	n/a	n/a	n/a	3/16"	OP27008	n/a	.11	10 ea

* Stainless tube wall thickness .049"

RAIL BASE FITTINGS - ROUND

Investment Cast 316 Stainless



Bulk	Display	Description	Tube O.D.*	Base	Fastener	Wt.(lb.)	Std. Pack
280300	280300-1	30° Round Base	7/8"	2-5/8"	#10 FH	.50	10 ea
280301	280301-1	30° Round Base	1"	2-3/4"	1/4" FH	.50	10 ea
280450	280450-1	45° Round Base	7/8"	2-5/8"	#10 FH	.50	10 ea
280451	280451-1	45° Round Base	1"	2-3/4"	1/4" FH	.54	10 ea
280600	280600-1	60° Round Base	7/8"	2-5/8"	#10 FH	.55	10 ea
280601	280601-1	60° Round Base	1"	2-3/4"	1/4" FH	.49	10 ea
280900	280900-1	90° Round Base	7/8"	2-5/8"	#10 FH	.49	10 ea
280901	280901-1	90° Round Base	1"	2-3/4"	1/4" FH	.58	10 ea
280921	280921-1	90° Low Round Base	1"	2-3/4"	1/4" FH	.36	10 ea

* Stainless tube wall thickness .049"

RAIL BASE FITTINGS - RECTANGULAR

Investment Cast 316 Stainless



Bulk	Display	Description	Tube O.D.*	Base	Fastener	Wt.(lb.)	Std. Pack
281300	281300-1	30° Rectangular Base	7/8"	1-3/4" x 2-5/8"	#10 FH	.43	10 ea
281301	281301-1	30° Rectangular Base	1"	1-7/8" x 3-3/16"	1/4" FH	.51	10 ea
281450	281450-1	45° Rectangular Base	7/8"	1-11/16" x 3"	#10 FH	.42	10 ea
281451	281451-1	45° Rectangular Base	1"	1-7/8" x 3-1/4"	1/4" FH	.59	10 ea
281600	281600-1	60° Rectangular Base	7/8"	1-3/4" x 3-1/16"	#10 FH	.48	10 ea
281601	281601-1	60° Rectangular Base	1"	1-7/8" x 3-1/4"	1/4" FH	.57	10 ea
281900	281900-1	90° Rectangular Base	7/8"	1-11/16" x 3"	#10 FH	.42	10 ea
281901	281901-1	90° Rectangular Base	1"	1-7/8" x 3-3/16"	1/4" FH	.53	10 ea
281931	281931-1	90° Volcano Base	1"	2-1/16" x 3"	1/4" FH	.46	10 ea
281936	281936-1	90° Volcano Base	1"	3-11/16" x 3-3/8"	1/4" FH	.97	10 ea

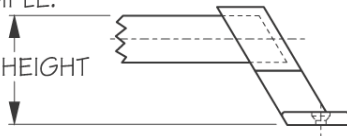
* Stainless tube wall thickness .049"

HAND RAIL FITTINGS

Investment Cast 316 Stainless

EXAMPLE:

RAIL HEIGHT



Bulk	Display	Description	Rail Height	Tube O.D.*	Fastener	Wt.(lb.)	Std. Pack
285060	285060-1	60° Center	1-13/16"	7/8"	#10 FH	.28	10 ea
285061	285061-1	60° Center	1-7/8"	1"	1/4" FH	.34	10 ea
285065	285065-1	60° Center - Left Hand Set Screw	1-13/16"	7/8"	#10 FH	.28	10 ea
285066	285066-1	60° Center - Right Hand Set Screw	1-13/16"	7/8"	#10 FH	.27	10 ea
285120	285120-1	120° End	1-13/16"	7/8"	#10 FH	.28	10 ea
285121	285121-1	120° End	1-7/8"	1"	1/4" FH	.37	10 ea
285160	285160-1	60° End	1-13/16"	7/8"	#10 FH	.31	10 ea
285161	285161-1	60° End	1-7/8"	1"	1/4" FH	.38	10 ea
285165	285165-1	60° End - Left Hand Set Screw	1-13/16"	7/8"	#10 FH	.29	10 ea
285166	285166-1	60° End - Right Hand Set Screw	1-13/16"	7/8"	#10 FH	.30	10 ea
288280	288280-1	Rail Standoff	2-1/4"	7/8"	5/16" Bolt	.11	10 ea
288290	288290-1	Bullet End	n/a	7/8"	n/a	.11	10 ea
288291	n/a	Bullet End	n/a	1"	n/a	.13	10 ea
289900	289900-1	90° End - Bottom Mounted	1-7/8"	7/8"	1/4" - 28 Bolt	.82	5 ea
289901	289901-1	90° End - Bottom Mounted	1-7/8"	1"	1/4" - 28 Bolt	1.16	5 ea
289905	289905-1	60° Center - Bottom Mounted	1-7/8"	7/8"	1/4" - 28 Bolt	.31	5 ea

* Stainless tube wall thickness .049"

HAND RAIL END FITTINGS

Investment Cast 316 Stainless



Bulk	Display	Description	Tube O.D.*	Fastener	Wt.(lb.)	Std. Pack
289055	289055-1	5-1/2° Rail (End Out)	7/8"	#10 FH	.61	5 ea
289155	289155-1	5-1/2° Rail (End In)	7/8"	#10 FH	.48	5 ea
289165	289165-1	16-1/2° Rail (End Out)	7/8"	#10 FH	.44	5 ea

* Stainless tube wall thickness .049"

HAND RAIL TEES

Investment Cast 316 Stainless



Bulk	Display	Description	Tube O.D. *	Wt.(lb.)	Std. Pack
290600	290600-1	60° Universal Tee	7/8"	.39	10 ea
290601	290601-1	60° Universal Tee	1"	.46	10 ea
290603	290603-1	60° Hinged Universal Tee	7/8"	.53	10 ea
290604	290604-1	60° Hinged Universal Tee	1"	.70	10 ea
290900	290900-1	90° Tee	7/8"	.34	10 ea
290901	290901-1	90° Tee	1"	.38	10 ea
290903	290903-1	90° Hinged Tee	7/8"	.53	10 ea
290904	290904-1	90° Hinged Tee	1"	.58	10 ea
291600	291600-1	60° Tee - Left Hand Set Screw	7/8"	.34	10 ea
291601	291601-1	60° Tee - Left Hand Set Screw	1"	.43	10 ea
292600	292600-1	60° Tee - Right Hand Set Screw	7/8"	.31	10 ea
292601	292601-1	60° Tee - Right Hand Set Screw	1"	.42	10 ea
293100	293100-1	3 - Way Corner Fitting	7/8"	.47	5 ea
293101	293101-1	3 - Way Corner Fitting	1"	.57	5 ea
293131	293131-1	4 - Way Corner Fitting	1"	.70	5 ea
293141	293141-1	4 - Way Tee	1"	.48	5 ea

* Stainless tube wall thickness .049"

RAIL TEES, ELBOWS & BOW FORMS

Investment Cast 316 Stainless

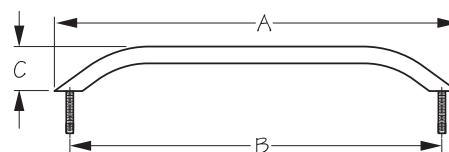


Bulk	Display	Description	Tube O.D. *	Degree	Wt.(lb.)	Std. Pack
293190	293190-1	Cable Anchor	7/8"	90°	.43	5 ea
293191	293191-1	Cable Anchor	1"	90°	.47	5 ea
295090	295090-1	Elbow	7/8"	90°	.34	10 ea
295091	295091-1	Elbow	1"	90°	.44	10 ea
295095	295095-1	Elbow & Anchor Eye	7/8"	90°	.47	5 ea
295096	295096-1	Elbow & Anchor Eye	1"	90°	.49	5 ea
295110	295110-1	Bow Form	7/8"	110°	.66	5 ea
295111	295111-1	Bow Form	1"	110°	.89	5 ea
295125	295125-1	Bow Form	7/8"	125°	.56	5 ea
295126	295126-1	Bow Form	1"	125°	.76	5 ea
295140	295140-1	Bow Form	7/8"	140°	.53	5 ea

Flagpole mounting hole in Bow Forms are designed to fit 1/2" diameter flagpole such as Sea-Dog part number 328110. * Stainless tube wall thickness .049"

**STUD MOUNT GRAB RAIL**

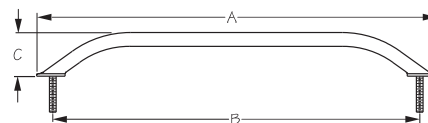
Formed 304 Stainless/Powder Coat



Bulk	Display	A	B	C	Finish	Tube O.D.	Fastener	Wt.(lb.)	Std. Pack
254106	254106-1	7-1/4"	6"	1-1/2"	Stainless	3/4"	5/16" - 18 Nut	.33	5 ea
254112	254112-1	12"	10-3/4"	2"	Stainless	3/4"	5/16" - 18 Nut	.46	5 ea
254118	254118-1	18-1/2"	16-3/4"	2"	Stainless	3/4"	5/16" - 18 Nut	.64	5 ea
254124	254124-1	24"	22-1/2"	2"	Stainless	3/4"	5/16" - 18 Nut	.80	5 ea

**STUD MOUNT FLANGED GRAB RAIL**

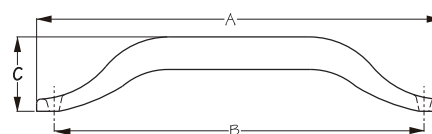
Formed 304 Stainless



Bulk	Display	A	B	C	Finish	Tube O.D.	Fastener	Wt.(lb.)	Std. Pack
254209	254209-1	10"	8-3/4"	2-1/4"	Stainless	7/8"	5/16" - 18 Nut	.44	5 ea
254212	254212-1	13-1/2"	12"	2-1/4"	Stainless	7/8"	5/16" - 18 Nut	.53	5 ea
254218	254218-1	19-3/8"	18"	2-1/4"	Stainless	7/8"	5/16" - 18 Nut	.70	5 ea
254224	254224-1	25-1/4"	24-1/4"	2-1/4"	Stainless	7/8"	5/16" - 18 Nut	.76	5 ea

**SURFACE MOUNT HAND RAIL**

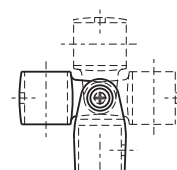
Formed 304 Stainless



Bulk	Display	A	B	C	Finish	Tube O.D.	Fastener	Wt.(lb.)	Std. Pack
254312	254312-1	12-1/4"	11-3/16"	2-3/8"	Stainless	1"	5/16" FH	.43	5 ea
254318	254318-1	18-1/4"	17-3/16"	2-3/8"	Stainless	1"	5/16" FH	.63	5 ea
254324	254324-1	24-1/4"	23-3/16"	2-3/8"	Stainless	1"	5/16" FH	.83	5 ea

**CLEVIS SLIDE/TOP CAP UNIT**

Investment Cast 316 Stainless

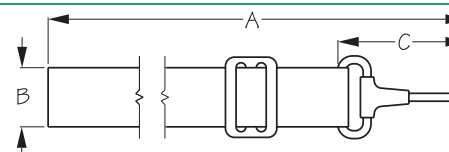


Bulk	Display	Tube O.D.*	Pin Size	Pin/Screw Part #	Wt.(lb.)	Std. Pack
270121	270121-1	1"	1/4"	0P27007	.58	10 ea

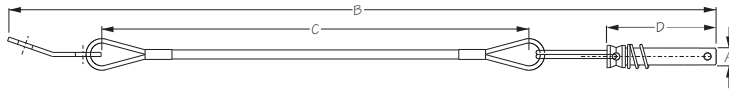
* Stainless tube wall thickness .049"

**BIMINI STRAP**

Nylon/Stainless



Bulk	Display	A	B	C	Color	Wt.(lb.)	Std. Pack
298172	298172-1	8'	1"	2-1/8"	Black	.12	10 pr
298272	298272-1	8'	1"	2-1/8"	White	.12	10 pr



RELEASE PIN & LANYARD

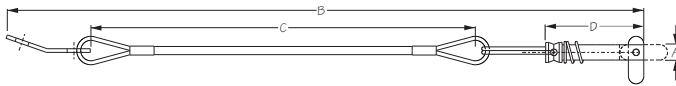
304 Stainless



Bulk	Display	A	B	C	D	Type	Wt.(lb.)	Std. Pack
299980	299980-1	1/4"	10"	6"	1-3/8"	Stepped	.04	10 ea
299981	299981-1	1/4"	10"	6"	1-3/8"	Straight	.04	10 ea

TOGGLE PIN & LANYARD - STRAIGHT

304 Stainless



Bulk	Display	A	B	C	D	Wt.(lb.)	Std. Pack
299986	299986-1	1/4"	10"	6"	1-3/8"	.03	10 ea

RAIL FITTINGS REPLACEMENT PARTS

304 Stainless/Nylon



OP27001

OP27002

OP27003

OP27004

OP27005

OP27006

OP27007

273308
273309

OP27008

OP27301

OP27302

OP27303

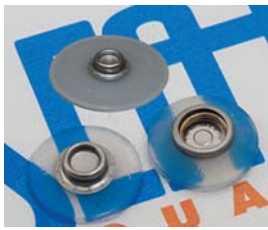
OP27304

OP27601

299999

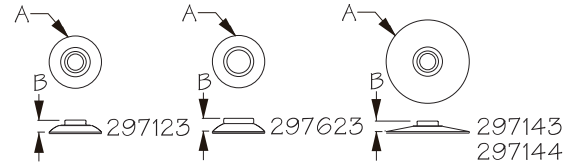
273298
273299

Bulk	Display	Description	Wt.(lb.)	Std. Pack
OP27001	OP27001-1	Screw for 270160, 270161, 270200, 270230 and 270240	.01 / .02	10 ea / 10 pr
OP27002	OP27002-1	Release Pin for 270210, 270235 and 270245	.01 / .02	10 ea
OP27003	OP27003-1	Screw for 270171	.01 / .02	10 ea / 10 pr
OP27004	OP27004-1	Screw for 270205	.01 / .02	10 ea / 10 pr
OP27005	OP27005-1	Bolt for 270255	.01 / .02	10 ea / 10 pr
OP27006	OP27006-1	Screw for 270250	.01 / .02	10 ea / 10 pr
OP27007	OP27007-1	Bolt for 270520 and 270521	.01 / .02	10 ea / 10 pr
OP27008	OP27008-1	Pin and Split Ring for 270560	.01 / .02	10 ea / 10 pr
OP27301	OP27301-1	Screw for 273160 and 273291	.01 / .02	10 ea / 10 pr
OP27302	OP27302-1	Thumbscrew for 273290 and 273295	.01 / .02	10 ea / 10 pr
OP27303	OP27303-1	Screw for 273250 and 273271	.01 / .02	10 ea / 10 pr
OP27601	OP27601-1	Screw for 276160, 276200 and 276250	.01 / .02	10 ea / 10 pr
299999	299999-1	1/4"-28 x 3/16" Cone Point Hex Drive	.01 / .10	100 ea / 10 sets
273298	273298-1	Head Screw - 1/4"-20 x 7/8" (Black) for 273250 thru 273266	.02 / .04	10 ea / 10 pr
273299	273299-1	Head Screw - 1/4"-20 x 7/8" (White) for 273250 thru 273266	.02 / .04	10 ea / 10 pr
273308	273308-1	Head Screw - 1/4"-20 x 1/2" (Black) for all Side Mount Deck Hinges	.01 / .02	10 ea / 10 pr
273309	273309-1	Head Screw - 1/4"-20 x 1/2" (White) for all Side Mount Deck Hinges	.01 / .02	10 ea / 10 pr
299999	n/a	1/4"-20 x 1/4" Cupped Point Hex Drive	.01 / .02	10 ea



FLEXIBLE BASE ADHESIVE CANVAS FASTENER

Stainless/POM



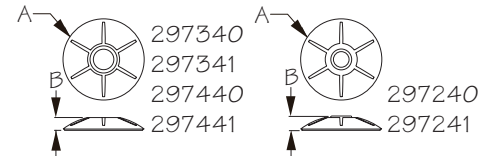
Bulk	Display	Style	Base Color	A	B	Wt.(lb.)	Std. Pack
n/a	297123-1	Stud	Clear	1"	5/16"	.02	10 pr
n/a	297123-2	Stud	Clear	1"	5/16"	.02	5 bag
n/a	297143-1	Stud	Clear	1-9/16"	1/4"	.03	10 pr
n/a	297143-2	Stud	Clear	1-9/16"	1/4"	.03	5 bag
n/a	297144-1	Stud	Gray	1-9/16"	1/4"	.03	10 pr
n/a	297144-2	Stud	Gray	1-9/16"	1/4"	.03	5 bag
n/a	297623-1	Socket	Clear	1"	5/16"	.02	10 pr
n/a	297623-2	Socket	Clear	1"	5/16"	.02	5 bag

(-2 bag contain 25 pieces)



DOME BASE ADHESIVE CANVAS FASTENER

POM



Bulk	Display	Style	Base Color	Tension	A	B	Wt.(lb.)	Std. Pack
n/a	297240-1	Stud	Black	na	1-9/16"	1/4"	.01	10 pr
n/a	297240-2	Stud	Black	na	1-9/16"	1/4"	.01	5 bag
n/a	297241-1	Stud	White	na	1-9/16"	1/4"	.01	10 pr
n/a	297241-2	Stud	White	na	1-9/16"	1/4"	.01	5 bag
n/a	297340-1	Socket	Black	Light	1-9/16"	7/32"	.01	10 pr
n/a	297340-2	Socket	Black	Light	1-9/16"	7/32"	.01	5 bag
n/a	297341-1	Socket	White	Light	1-9/16"	7/32"	.01	10 pr
n/a	297341-2	Socket	White	Light	1-9/16"	7/32"	.01	5 bag
n/a	297440-1	Socket	Black	Heavy	1-9/16"	7/32"	.01	10 pr
n/a	297440-2	Socket	Black	Heavy	1-9/16"	7/32"	.01	5 bag
n/a	297441-1	Socket	White	Heavy	1-9/16"	7/32"	.01	10 pr
n/a	297441-2	Socket	White	Heavy	1-9/16"	7/32"	.01	5 bag

(-2 bag contain 25 pieces)



CANVAS FASTENERS

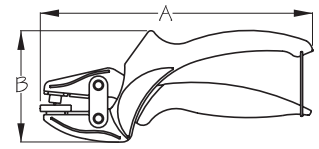
Nickel Plated Brass



Bulk	Display	Photo #	Description	Wt.(lb.)	Std. Pack
n/a	299101-1	1 & 2	Canvas Socket - 7/32" (3/set) & Back Plate (3/set)	.03	10 sets
n/a	299102-1	3 & 4	Canvas Stud - 2 Prong Clinch (4/set) & Washer (4/set)	.04	10 sets
n/a	299103-1	5 & 6	Canvas Stud - Eyelet Type (4/set) & Washer (4/set)	.04	10 sets
299104	299104-1	16	Canvas Stud (#8 Wood Screw) 1/2" (5/set)	.05	100 ea/10 sets
n/a	299107-1	19	Canvas Stud (#8-32 Machine Screw) 3/8" (5 /set)	.05	10 sets
n/a	299108-1	7 & 8	Canvas Snap Cap - 1/4" (6/set) & Socket (6/set)	.06	10 sets
n/a	299109-1	9 & 8	Canvas Snap Cap - 5/16" (6/set) & Socket (6/set)	.06	10 sets
n/a	299110-1	10 & 15	Canvas Snap Stud - Standard (6/set) & Snap Post- 1/4" (6/set)	.06	10 sets
n/a	299111-1	20	Canvas Snap Stud (#8 Sheet Metal Screw) 3/8" (6/set)	.06	10 sets
n/a	299112-1	21	Canvas Snap Stud (#8 Sheet Metal Screw) 5/8" (6/set)	.06	10 sets
299113	299113-1	21A	Canvas Snap Stud (#10 Sheet Metal Screw) 5/8" (6/set)	.01 / .06	100 ea / 10 sets
299114	299114-1	21B	Canvas Snap Stud (#8 Sheet Metal Self Tap Screw) 1/2" (6/set)	.01 / .06	100 ea / 10 sets
n/a	299115-1	22	Canvas Snap Stud (#10-32 Machine Screw) 3/8" (5/set)	.05	10 sets
299116	299116-1	23	Snap Turn Buckle - 2 Screw Base (2/set)	.02	100 ea/10 pr
n/a	299117-1	11 & 12	Snap Turn Buckle - 2 Prong Clinch (2/set) & Back Plate (2/set)	.02	10 sets
n/a	299118-1	13 & 14	Snap Turn Buckle Eyelet (2/set) & Washer (2/set)	.02	10 sets
n/a	299119-1	24	Snap Turn Buckle (#7 Brass Wood Screw) 5/8" (2/set)	.04	10 pr
n/a	299120-1	25	Canvas Snap Hand Punch & Base	.10	10 sets
n/a	299124-1	26	S.S. Windshield Clip - 3/4" Base (4/set)	.04	10 sets
n/a	299125-1	27	S.S. Windshield Clip - 7/8" Base (4/set)	.04	10 sets
273670	273670-1	28	Nylon Windshield Canvas Stud Clip - Black	.02	10 ea/10 pr
299151	n/a	1	Canvas Socket-Standard Leg 7/32"	.01	100 ea
299152	n/a	2	Back Plate for 299151	.01	100 ea
299153	n/a	3	Canvas Stud - Two Prong Clinch	.01	100 ea
299154	n/a	4	Washer for 299153	.01	100 ea
299155	n/a	5	Canvas Stud - Eyelet Type	.01	100 ea
299156	n/a	6	Washer for 299155	.01	100 ea
299157	n/a	7	Canvas Snap Cap - Standard 1/4"	.01	100 ea
299158	n/a	8	Canvas Snap Socket - Standard	.01	100 ea
299159	n/a	9	Canvas Snap Cap - Long Barrel 5/16"	.01	100 ea
299162	n/a	10	Canvas Snap Stud - Standard	.01	100 ea
299163	n/a	11	Snap Turn Buckle - Single Two Prong Clinch	.01	100 ea
299164	n/a	12	Back Plate for 299163	.01	100 ea
299165	n/a	13	Snap Turn Buckle Eyelet	.01	100 ea
299166	n/a	14	Washer for 299165	.01	100 ea
299199	n/a	15	Canvas Snap Post 1/4" for 299162	.01	100 ea

**CANVAS SNAP TOOL**

Aluminum/Steel

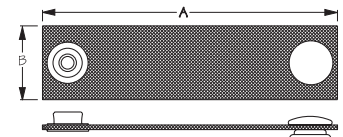


Bulk	Display	A	B	Wt.(lb.)	Std. Pack
n/a	299190-1	7-1/4"	2-7/8"	.40	1 ea

Canvas Snap Tool includes a die wrench and three removable dies for various snap caps and studs. Great addition to any tool box.

**ADD-A-STRAP**

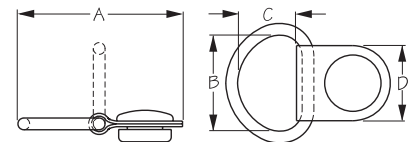
Nickel Plated Brass/Nylon



Bulk	Display	A	B	Color	Wt.(lb.)	Std. Pack
n/a	299201B-1	1-1/2"	1"	Black	.06	6 pr
n/a	299201W-1	1-1/2"	1"	White	.06	6 pr
n/a	299202B-1	2-1/2"	1"	Black	.07	6 pr
n/a	299202W-1	2-1/2"	1"	White	.07	6 pr
n/a	299204B-1	4"	1"	Black	.08	6 pr
n/a	299204W-1	4"	1"	White	.08	6 pr
n/a	299206B-1	6"	1"	Black	.09	6 pr
n/a	299206W-1	6"	1"	White	.09	6 pr
n/a	299208B-1	8"	1"	Black	.10	6 pr
n/a	299208W-1	8"	1"	White	.10	6 pr
n/a	299212B-1	12"	1"	Black	.11	6 pr
n/a	299212W-1	12"	1"	White	.11	6 pr

**CANVAS SNAP WITH D-RING - SOCKET**

304 Stainless

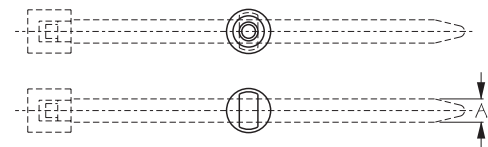


Bulk	Display	A	B	C	Wt.(lb.)	Std. Pack
n/a	299255-1	2-3/4"	1"	5/8"	.04	5 pr
n/a	299255-2	2-3/4"	1"	5/8"	1.00	5 bag

Display pack (-1) contains 2 pieces, bulk pack (-2) contains 10 pieces

**CANVAS SNAP FOR TIE WRAP**

304 Stainless Steel



Bulk	Display	A	Wt.(lb.)	Std. Pack
n/a	299260-1	19/64"	.02	10 sets
n/a	299260-2	19/64"	2.50	5 bag

Canvas Snap with tie wrap loop does not include tie wrap.

Display pack (-1) contains 6 pieces, bulk pack (-2) contains 25 pieces