



# PANEL FASTENERS CAPTIVE SCREWS

# **SOUTHCO® "47" SERIES CAPTIVE SCREWS**

- Industry's broadest line of captive screw fastener options.
- Product configurator at www.clancey.com will help you select the screw best suited for your application.



Type "47" into the search bar for direct access to this complete product line.

www.clancey.com

M

Thread Size Options			
Inch Metric			
4-40	M3		
6-32	M3.5		
8-32	M4		
10-32	M5		
1/4-20	M6		

# **HEAD STYLE OPTIONS:** Bright, black powdercoat, overmolded in colors.

Slotted Common recess	Phillips Better tool retention. Meets certain limited-access restrictions.	Phillips/Slot Combination Combine the better tool retention of Phillips with the convenience of a slotted recess	TORX®  • Higher torque transfer. • Reduced camout & end load. • High-speed assembly. • Longer tool life.	TORX®/Slot Combination Combine the benefits of TORX® with the convenience of a slotted recess.

# **INSTALLATION OPTIONS:**

INCHAELATION OF HOME	-			
Press-in Simple, one-step process commonly used in the sheet- metal industry.	Flare-in Requires less installation force. Especially good for near-edge installations or thin panels.	Floating Provides additional radial float to accommodate a significant amount of misalignment.	P.C. Board Designed for use in P.C. Boards and other composites such as fiberglass.	Snap-in Install by hand, no special tools required.
<u></u>				

# **RESTRICTED ACCESS "47"**



- Hand turn close tool to open.
- Meets UL restricted access requirements.

# **CUSTOM CONFIGURATIONS**

- Southco's specialty.
  - Jack-out
  - Tool only
  - Special recess
  - Screw length
  - Colors



# PANEL FASTENERS CAPTIVE SCREWS









 Highest quality, attractive finishes available — short lead times

# Visit www.clancey.com

Type the Clancey web search number into the search box on our homepage for direct access to the full product line.



Clancey Web Search "53"				
Thread Options Installation Method				
Inch	Metric	Flar	e-In	
4-40 M3 Head Style			Style	
6-32 M4 Knurled			rled	
8-32	M5	5 Recess Style		
10-32	M6 Slotted			
1/4-20 Finish Options				
Polished Black				



Clancey Web Search "51"			
Thread Options Installation Method			n Method
Inch	Metric	Flar	e-In
4-40	M3	Head Style	
6-32	M4	Knurled	
8-32	M5	Recess Style	
10-32	M6	Slotted	
1/4-20 Finish			ish
Polished Black			



Clancey Web Search "F5"			
Thread	Options	Installatio	n Method
Inch	Metric	Pres	ss-In
4-40	M3	Head Style	
6-32	M4	Flush	
8-32	M5	Reces	s Style
	Phillips Slotted		Slotted
Finish		ish	
Stainless passivated			



Clancey Web Search "58"			
Thread Options Installation Method			n Method
Inch	Metric	Throug	h Hole
8-32	M4	Head	Style
10-32	M5	Knurled	
1/4-20	M6	Recess Style	
	Slotted		
Finish		ish	
Polished Black			



Clancey Web Search "52"				
Thread Options Installation Method				
Inch	Metric	Press-In	Flare-In	
4-40	M3	Head Style		
6-32	M4	Knurled	Smooth	
		Recess	Styles	
Phillips-Slot Torx Slot				
Finish				
Bright Zinc				
·				



Clancey Web Search "52"				
Thread Options Installation Method				
Inch	Metric	Press-In	Flare-In	
4-40	M3	Head	Style	
6-32 Smooth			oth	
Recess Style				
		Slot	tted	
Finish				
Polished Stainless				



Clancey Web Search "5T"			
Thread Options Installation Method			
Inch	Metric	Press-In	Flare-In
4-40	M3	Head Style	
6-32	M3.5	Knurled Smooth	
		Recess	s Style
Phillips-Slot Torx Slot			
Finish			
Bright Zinc			

Captive Nut		
Material:	Knob - Stainless	
Ferrule - Steel		

Clancey Web Search "N7"			
Thread Options Installation Method			
Inch	Metric	Pre	ss-In
4-40	M3	Head	l Style
6-32	M4	Knurled	
8-32	M5	Recess Style	
10-32	M6	Blind	Thru-Hole
1/4-20		Fir	nish
Knob - natural			
Ferrule - bright zinc			







# PANEL FASTENERS SOUTHCO® DRIVE (BLIND) RIVETS

# **HOW TO SELECT A SOUTHCO® DRIVE RIVET**

# **COMMON APPLICATIONS**

THIN PANELS



## **TUBULAR FRAME**

## **BLIND HOLE**





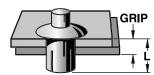




## INSTALLATION

## THRU HOLE APPLICATION

- 1. Measure your total material thickness.
- 2. Select the correct grip length rivet from tables on the following pages by comparing your total sheet thickness with the MIN. and MAX. values in columns headed GRIP.



GRIP = total thickness of sheets to be fastened.

3. INSERT A RIVET
Seat head firmly against outer surface.



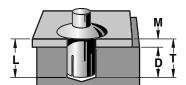
## 4. HIT THE PIN

Drive pin flush with rivet head. Expanding prongs clinch sheets tightly, eliminating gaps.

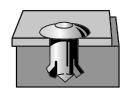
Suggested hole size for thru hole applications:

RIVET DIAMETER	3.2 (.125)					9.5 (.375)
HOLE <sub>+0.1 (+.003)</sub>	3.3	4	4.9	6.5	8.2	9.8
DIA0.0 (001)	(.128)	(.161)	(.191)	(.257)	(.323)	(.386)

## **BLIND HOLE APPLICATION**



To determine length of rivet under the head: Select a rivet with the L dimension equal to M (Thickness of outer panel) + D (Hole depth in wood or inner panel). The total hole depth (T) should be at least 2 mm (.06") greater than the length of the rivet.



Suggested hole size for blind hole applications in wood:

RIVET DIA.	HOLE DIAMETER RANGE
3.2 (.125)	3.3 (.128) - 3.5 (.140)
4 (.156)	4 (.161) - 4.3 (.172)
4.8 (.188)	4.9 (.191) - 5.5 (.219)
6.4 (.250)	6.7 (.266) - 7 (.281)
7.9 (.313)	8.7 (.344) - 9.5 (.375)
9.5 (.375)	11 (.437) - 12 (.468)

The small end of the range diameter is for softer woods and the high end is for harder woods.

# **MASONRY BLIND HOLE**

 Use a carbide tipped spiral masonry drill, same diameter as rivet [6.4 (.250) or 4.8 (.188)]. Drill to any depth, deep enough to permit full insertion of rivet.



2. Insert rivet through material to be attached and into wall. No other parts to apply-rivet works like a nail.



3. Drive the pin just flush with rivet head, using ordinary hammer. Rivet prongs expand deep in masonry where it is strongest.



 That's all. Attachment is complete.
 To remove, drill head off or, if hole is deep enough, drive pin through and pull rivet out.





# PANEL FASTENERS SOUTHCO® DRIVE (BLIND) RIVETS

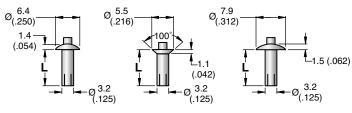




# **GENERAL PURPOSE RIVETS**

# 1/8" (3.2 mm) DIAMETER



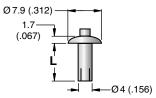


**Material and Finish:** 

Rivet: Aluminum, natural
Pin: 302 Stainless steel, natural

	PART NUMBERS			GRIP		
Universal Head	100 CSK Head	Full Brazier Head	L	MIN.	NOM.	MAX.
38-104-02-13			4 (.156)	1.2 (.047)	1.6 (.063)	2 (.078)
38-104-03-13	38-504-03-13	38-204-03-13	4.8 (.188)	2 (.078)	2.4 (.094)	2.8 (.109)
38-104-04-13		38-204-04-13	5.6 (.219)	2.8 (.109)	3.2 (.125)	3.6 (.141)
38-104-05-13	38-504-05-13	38-204-05-13	6.4 (.250)	3.6 (.141)	4 (.156)	4.4 (.172)
38-104-06-13		38-204-06-13	7.1 (.281)	4.4 (.172)	4.8 (.188)	5.2 (.203)
38-104-07-13	38-504-07-13	38-204-07-13	7.9 (.313)	5.2 (.203)	5.6 (.219)	6 (.234)
38-104-08-13			8.7 (.344)	6 (.234)	6.4 (.250)	6.8 (.266)
38-104-09-13	38-504-09-13		9.5 (.375)	6.8 (.266)	7.1 (.281)	7.5 (.297)
38-104-10-13			10.3 (.406)	7.5 (.297)	7.9 (.313)	8.3 (.328)
38-104-11-13			11.1 (.438)	8.3 (.328)	8.7 (.344)	9.1 (.359)
38-104-12-13		38-204-12-13	11.9 (.469)	9.1 (.359)	9.5 (.375)	9.9 (.391)

# 5/32" (4 mm) DIAMETER



**Material and Finish:** 

**Rivet: Aluminum, natural** 

Pin: 302 Stainless steel, natural

PART NUMBERS		GRIP					
Universal Head	L	MIN.	NOM.	MAX.			
38-105-03-13	5.6 (.219)	2 (.078)	2.4 (.094)	2.8 (.109)			
38-105-04-13	6.4 (.250)	2.8 (.109)	3.2 (.125)	3.6 (.141)			
38-105-05-13	7.1 (.281)	3.6 (.141)	4 (.156)	4.4 (.172)			
38-105-06-13	7.9 (.313)	4.4 (.172)	4.8 (.188)	5.2 (.203)			
38-105-07-13	8.7 (.344)	5.2 (.203)	5.6 (.219)	6 (.234)			
38-105-08-13	9.5 (.375)	6 (.234)	6.4 (.250)	6.8 (.266)			
38-105-09-13	10.3 (.406)	6.8 (.266)	7.1 (.281)	7.5 (.297)			
38-105-10-13	11.1 (.438)	7.5 (.297)	7.9 (.313)	8.3 (.328)			
38-105-11-13	11.9 (.469)	8.3 (.328)	8.7 (.344)	9.1 (.359)			
38-105-15-13	15.1 (.594)	11.5 (.453)	11.9 (.469)	12.3 (.484)			
38-105-16-13	15.9 (.625)	12.3 (.484)	12.7 (.500)	13.1 (.516)			
38-105-20-13	19.1 (.750)	15.5 (.609)	15.9 (.625)	16.3 (.641)			







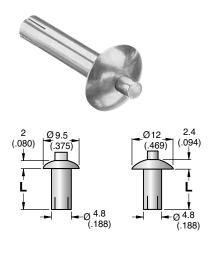


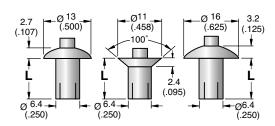
# PANEL FASTENERS SOUTHCO® DRIVE (BLIND) RIVETS

# **GENERAL PURPOSE RIVETS**

# 3/16" (4.8 mm) DIAMETER

PART N	IUMBERS		GRIP		
Universal Head	Full Brazier Head	L	MIN.	NOM.	MAX.
38-106-02-16	38-206-02-16	6.4 (.250)	1.2 (.047)	2.4 (.094)	3.6 (.141)
38-106-04-16	38-206-04-16	7.1 (.281)	2 (.078)	3.2 (.125)	4.4 (.172)
38-106-06-16	38-206-06-16	8.7 (.344)	3.6 (.141)	4.8 (.188)	6 (.234)
38-106-08-16	38-206-08-16	10.3 (.406)	5.2 (.203)	6.4 (.250)	7.5 (.297)
38-106-10-16	38-206-10-16	11.9 (.469)	6.8 (.266)	7.9 (.313)	9.1 (.359)
38-106-12-16	38-206-12-16	13.5 (.531)	8.3 (.328)	9.5 (.375)	10.7 (.422)
38-106-14-16	38-206-14-16	15.1 (.594)	9.9 (.391)	11.1 (.438)	12.3 (.484)
38-106-16-16	38-206-16-16	16.7 (.656)	11.5 (.453)	12.7 (.500)	13.9 (.547)
38-106-18-16	38-206-18-16	18.3 (.719)	13.1 (.516)	14.3 (.563)	15.5 (.609)
38-106-20-16	38-206-20-16	19.8 (.781)	14.7 (.578)	15.9 (.625)	17.1 (.672)
	38-206-26-16	24.6 (.969)	19.4 (.766)	20.6 (.813)	21.8 (.859)
38-106-28-16		26.2 (1.031)	21 (.828)	22.2 (.875)	23.4 (.922)
38-106-32-16	38-206-32-16	29.4 (1.156)	24.2 (.953)	25.4 (1.000)	26.6 (1.047)





1/4" (6.4 mm) DIAMETER



P	PART NUMBERS			GRIP		
Universal Head	100 CSK Head	Full Brazier Head	L	MIN.	NOM.	MAX.
38-108-02-16		38-208-02-16	6.4 (.250)	1.2 (.047)	2.4 (.094)	3.6 (.141)
38-108-04-16		38-208-04-16	7.1 (.281)	2 (.078)	3.2 (.125)	4.4 (.172)
38-108-06-16		38-208-06-16	8.7 (.344)	3.6 (.141)	4.8 (.188)	6 (.234)
38-108-08-16	38-508-08-16	38-208-08-16	10.6 (.416)	5.2 (.203)	6.4 (.250)	7.5 (.297)
38-108-10-16	38-508-10-16	38-208-10-16	11.9 (.469)	6.8 (.266)	7.9 (.313)	9.1 (.359)
38-108-12-16	38-508-12-16	38-208-12-16	13.5 (.531)	8.3 (.328)	9.5 (.375)	10.7 (.422)
38-108-14-16	38-508-14-16	38-208-14-16	15.1 (.594)	9.9 (.391)	11.1 (.438)	12.3 (.484)
38-108-16-16	38-508-16-16	38-208-16-16	16.7 (.656)	11.5 (.453)	12.7 (.500)	13.9 (.547)
38-108-18-16	38-508-18-16	38-208-18-16	18.3 (.719)	13.1 (.516)	14.3 (.563)	15.5 (.609)
38-108-20-16	38-508-20-16	38-208-20-16	19.8 (.781)	14.7 (.578)	15.9 (.625)	17.1 (.672)
	38-508-22-16		21.4 (.844)	16.3 (.641)	17.5 (.688)	18.7 (.734)
38-108-24-16	38-508-24-16	38-208-24-16	23 (.906)	17.9 (.703)	19.1 (.750)	20.3 (.797)
	38-508-26-16		24.6 (.969)	19.4 (.766)	20.6 (.813)	21.8 (.859)
38-108-28-16	38-508-28-16	38-208-28-16	26.2 (1.031)	21 (.828)	22.2 (.875)	23.4 (.922)
		38-208-32-16	29.4 (1.156)	24.2 (.953)	25.4 (1.000)	26.6 (1.047)
		38-208-36-16	32.5 (1.281)	27.4 (1.078)	28.6 (1.125)	29.7 (1.171)
		38-208-44-16	38.9 (1.531)	33.7 (1.328)	34.9 (1.375)	36.1 (1.421)

Material and Finish: Rivet: Aluminum, natural

Pin: 7075 Stainless steel, natural



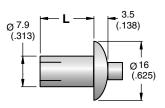
# PANEL FASTENERS SOUTHCO® DRIVE (BLIND) RIVETS





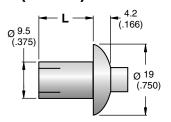
# LARGE DIAMETER ALUMINUM RIVETS

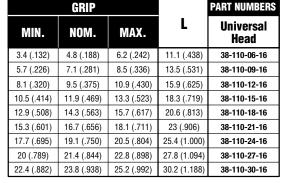
# 5/16" (7.9 mm) DIAMETER



Material and Finish:
Rivet: Aluminum, natural
<u>Pin</u> : 7075 Aluminum, natura

# 3/8" (9.5 mm) DIAMETER







	GRIP			PART NUMBERS
MIN.	NOM.	MAX.	L	Universal Head
3.2 (.125)	4.8 (.188)	6.4 (.250)	12.7 (.500)	38-112-06-16
5.5 (.219)	7.1 (.281)	8.7 (.344)	15.1 (.594)	38-112-09-16
7.9 (.313)	9.5 (.375)	11.1 (.438)	17.5 (.688)	38-112-12-16
10.3 (.406)	11.9 (.469)	13.5 (.531)	19.8 (.781)	38-112-15-16
12.7 (.500)	14.3 (.563)	15.9 (.625)	22.2 (.875)	38-112-18-16
15.1 (.594)	16.7 (.656)	18.3 (.719)	24.6 (.969)	38-112-21-16

# TRAILER LINER RIVETS



MAX.

4.4 (.175)

7 (.275)

9.5 (.375)

12.1 (.475)

14.6 (.575)

**GRIP** 

MIN.

1.9 (.075)

4.4 (.175)

7 (.275)

9.5 (.375)

12.1 (.475)

- Fast, efficient trailer lining
- · Low profile, non-snag head design
- Six sizes

L

7.1 (.281)

9.9 (.391)

12.3 (.484)

14.7 (.578)

17.5 (.688)

PART NUMBERS

10-11-706-13

10-12-706-13

10-13-706-13

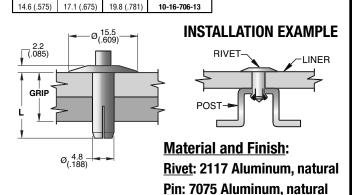
10-14-706-13

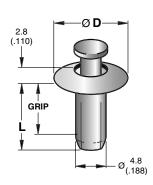
10-15-706-13

- Recessed pin resists being driven through or drilled out
- · Removal is difficult and time consuming
- Non-snag head design
- 2 Diameters and 4 grip ranges



GF	RIP		PART N	NUMBERS	
MIN.	MAX.	L	Ø 12 (.468) Head	Ø 16 (.615) Head	
1.9 (.075)	4.4 (.175)	7.1 (.281)	10-99-106-11	10-99-108-11	
4.4 (.175)	7 (.275)	9.9 (.391)	10-99-106-12	10-99-108-12	
7 (.275)	9.5 (.375)	12.3 (.484)	10-99-106-13	10-99-108-13	
9.5 (.375)	12.1 (.475)	14.7 (.578)	10-99-106-14	10-99-108-14	





# **Material and Finish:**

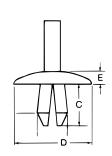
Rivet: 2117 Aluminum, natural Pin: 5056 Aluminum, natural



# **PANEL FASTENERS DRIVE RIVETS**

- Wide variety of hole sizes, grip ranges and head styles.
- Made from non-corrosive plastic materials.
- Prongs "Snap-in" to fastening hole and expand to secure panels when the pin is driven.

# **PLASTI-RIVETS®**







		DIMENSIONS		MOUI	NTING	STYLE	
PLASTI-RIVETS PART NUMBERS	PRONG Length "C"	HEAD Diameter "D"	HEAD HEIGHT "E"	NOMINAL Hole Diameter	GRIP RANGE	HEAD	PIN
231-080551-00	.212"	.187"	.045"	.125"	.031"140"	ROUND	NON-DRIVEN
231-080551-05	.240"	.218"	.060"	.125"	.031"140"	ROUND	PRE-DRIVEN
231-090741-00	.296"	.220"	.050"	.136"	.040"218"	BINDER	PRE-DRIVEN
201-100841-00	.323"	.218"	.050"	.156"	.187"250"	BINDER	NON-DRIVEN
231-100841-01	.327"	.230"	.050"	.156"	.040"250"	BINDER	PRE-DRIVEN
231-101041-01	.385"	.375"	.050"	.156"	.218"312"	BINDER	NON-DRIVEN
201-120541-00	.228"	.375"	.125"	.187"	.062"156"	BARREL	NON-DRIVEN
201-120741-00	.310"	.438"	.075"	.187"	.062"156"	BINDER	NON-DRIVEN
231-120741-00	.310"	.438"	.075"	.187"	.062"156"	BINDER	PRE-DRIVEN
201-120741-01	.310"	.320"	.075"	.187"	.062"156"	TRUSS	NON-DRIVEN
201-120751-00	.310"	.281"	.075"	.187"	.062"156"	ROUND	NON-DRIVEN
201-121041-00	.406"	.437"	.075"	.187"	.156"281"	BINDER	NON-DRIVEN
231-121041-02	.416"	.281"	.062"	.187"	.040"375"	SPECIAL ROUND	PRE-DRIVEN
226-120501-02	.212"	.312"	.031"	.190"	.031"125"	BARREL	NON-DRIVEN
201-121541-00	.549"	.281"	.078"	.190"	.312"440"	BINDER	NON-DRIVEN
231-121741-00	.613"	.437"	.075"	.190"	.375"500"	BINDER	NON-DRIVEN
231-141141-01	.452"	.344"	.062"	.218"	.040"400"	BINDER	PRE-DRIVEN
201-161241-00	.381"	.437"	.187"	.250"	.060"250"	BINDER	NON-DRIVEN
231-161241-00	.381"	.437"	.187"	.250"	.060"250"	BINDER	PRE-DRIVEN
231-161341-03	.510"	.437"	.080"	.250"	.040"462"	BINDER	PRE-DRIVEN
201-161341-00	.499"	.437"	.080"	.250"	.125"375"	BINDER	NON-DRIVEN
201-161751-00	.640"	.375"	.110"	.250"	.281"500"	ROUND	NON-DRIVEN
201-180401-00	.205"	.375"	.312"	.272"	.031"109"	BARREL	NON-DRIVEN
226-160501-01	.224"	.406"	.046"	.272"	.031"140"	BARREL	NON-DRIVEN
201-181141-00	.483"	.625"	.109"	.281"	.134"320"	BINDER	NON-DRIVEN
231-181141-00	.483"	.625"	.109"	.281"	.134"320"	BINDER	PRE-DRIVEN

**Head Styles** 







**Special Round** 

Truss

Hole size may vary with grip range. **Notes:** 

Dimensions listed are nominal.

**Material**: Nylon 66

**Colors:** Natural, Black. Custom available

Try this part in your application Please call for samples.

800-747-7405

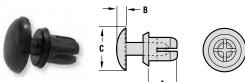
# PANEL FASTENERS DRIVE RIVETS



# **NYLON PUSH RIVETS**



- Securely holds panels in place.
- Removable, re-usable by pulling up on head.
- Quick, easy hand installation.



1 100			-	Δ		
PUSH	RIVETS		DIMENSIONS		MOUI	NTING
PART N Black	UMBER WHITE	PRONG LEGNTH "A"	HEAD HEIGHT "B"	HEAD Diameter "C"	HOLE DIAMETER	GRIP RANGE
9020 9022	9021 9023	.126"				.039"079"
9024	9025	.189"	.055"	.197"	.106"	.106"141"
9028	9029	.138"		<u> </u>		.039"079"
9030 9032	9031 9033	.177" .217"	.063"	.252"	.122"	.079"118" .118"157"
9034 9036	9035 9039	.256" .315"				.157"197" .217"256"
9046 9048	9047 9049	.177" .197"				.086"122"
9050 9054	9051	.217"	.063"	.252"	.142"	.126"161"
9054	9059	.276		l		.098"138"
9060	9061	.236"	074#	04511	40411	.138"177"
9062 9064	9065	.315"	.071"	.315"	.161"	.177"217" .217"256"
9068	9069	.394"		<u> </u>		.059"098"
9072	9073	.217"				.098"138"
9074 9076	9075 9077	.256" .295"	.087"	.354"	.201"	.138"177" .177"217"
9078 9080	9079 9081	.335" .374"				.217"256" .256"295"
9082	9083	.413"				.295"335"

Material: Nylon Color: Black

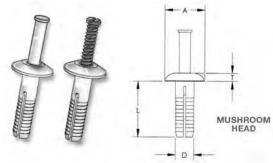
Flammability rating: 94V-2

Try this part in your application Please call for samples.

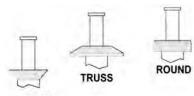
800-747-7405

# **NYLON ANCHOR RIVETS**

- Holds securely in blind applications.
- High impact nylon body.
- Nylon or removable steel pin.



PART N	UMBER Steel Pin	Hole Diameter	Length "I"	Head Style
Plastic Pili	Steer Pili	"D"	_	
61APM18075	61ASM18075	.187"	.750"	
61APM25075	61ASM25075		.750"	Mushroom
61APM25175	61ASM25175	.250"	1.00"	WIUSIIIOOIII
61APM25150	61ASM25150		1.50"	
61APR18075	61ASR18075	.187"	.750"	
61APR25075	61ASR25075		.750"	Round
61APR25100	61ASR25100	.250"	1.00"	noullu
61APR25150	61ASR25150		1.50"	
61APT18075	61AST18075	.187"	.750"	
61APT25075	61AST25075		.750"	
61APT25100	61AST25100		1.00"	
61APT25150	61AST25150		1.50"	
61APT25200		.250"	2.00"	Truss
61APT25300		.250	3.00"	
61APT25400			4.00"	
61APT25500			5.00"	
61APT25600			6.00"	
61APF25056		05011	.563"	F1=1
61APF25075		.250"	.750"	Flat



FLAT

# **Material & Finish:**

Body - Nylon, white
Pin - Nylon. white
- Steel, zinc plate

Head Style	Head Diameter "A"	Head Height "T"
Mushroom	.625"	.110"
Round	.438"	.125"
Truss	.625"	.110"
F1 .	100"	4000



# **PANEL FASTENERS, DRIVE RIVETS - REMOVABLE**

# **PANEL FASTENERS**DRIVE RIVETS - REMOVABLE

- Installed by hand, or with automatic equipment.
- Removable.
- Re-usable.
- Vibration resistant.

STANDARD TYPE		DIMEN	ISIONS		MOUNTING		
TUFLOK Part number	A	В	C	D	HOLE Diameter	GRIP Range	
31050001	.083"	.283"	.039"	.445"	.193"205"	.059"181"	
30060003	.049"	.669"	.098"	.709"	.236"244"	.197"236"	
30063001	.138"	1.00"	.098"	.898"	.248"276"	.098"350"	
30063008*	.098"	.700"	.098"	.559"	.244"262"	.060"228"	
30063014	.118"	.590"	.079"	.897"	.250"276"	.098"315"	
30080016	.091"	.591"	.106"	.787"	.315"325"	.118"315"	

<sup>\*</sup> Open prong design, all other closed per screw type drawing.



- · Easy removal with phillips screwdriver.
- Re-usable. Vibration resistant.

SCREW TYPE		DIMEN	SIONS	MOUNTING		
TUFLOK PART NUMBER	Α	В	С	D	HOLE DIAMETER	GRIP RANGE
60018703		.380"	.060"	.720"	.175"187"	.330"390"
60018707		.380"	.060"	.720"	.181"	.380"440"
60050003	.098"	.433"	.118"	.689"	.197"	.098"138"
60060003	.043"	.472" sq.	.126"	.638"	.236" square	114" - 146"
60063002	.030"	.700"	.118"	.689"	.248"258"	.098"236"
60063005	.030"	.700"	.118"	.898"	.248"268"	.098"314"
60063006	.030"	.610"	.118"	.898"	.248"268"	.098"314"
60070001	.030"	.500"	.118"	1.213"	.276"	.650"768"
61080001	.030"	.590"	.118"	.787"	.315"335"	.139"334"

<sup>\*\*</sup> Square Head Style

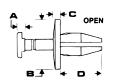
# Ideal for fastening electronic components to printed circuit boards.

• Can withstand up to 500° F in wave solder process.

MICRO-TUFLOK		DIMEN	SIONS	MOUNTING		
PART NUMBER	Α	В	С	D	HOLE DIAMETER	GRIP RANGE
1700-00	.040"	.190"	.060"	" .345" .097"103		.160"180"
1702-00	.050"	.218"	.060"	.300"	106" - 112"	.080"105"
1711-00	.050"	.218"	.060"	.320"	.122"128"	.105"130"
1707-00	.050"	.218"	.060"	.345"	.122"128"	.130"155"
1703-00	.040"	.218"	.060"	.370"	122" - 128"	155"- 180"
1704-00	.040" .218"		.060"	.455"	122" - 128"	.240"265"
1708-00*	.050"	.300"	.060"	.470"	144" - 154"	.265"290"
1713-00*	.060"	.297"	.060"	.423"	153" - 163"	.205"230"

<sup>\* &</sup>quot;Shoulder" style. Please call for additional dimensions.

# STANDARD TUFLOK®





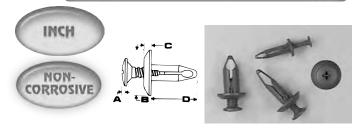


**Material**: Nylon

**Colors**: Black - custom available

Note: Listed dimensions are nominal

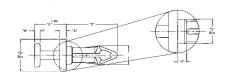
# **SCREW TYPE TUFLOK®**



**Material: Nylon** 

**Colors:** Black - custom available **Note:** Listed dimensions are nominal

# MICRO TUFLOK®





**Material:** Heat stabilized impact

modified nylon

Color: Black

**Note:** Listed dimensions are nominal



# PANEL FASTENERS SPECIAL PURPOSE RIVETS

# **RACHET-RIVETS**



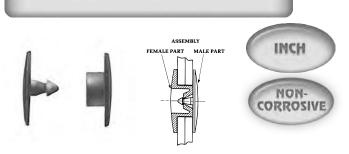
Material: Nylon 66

**Colors:** Natural, black - custom available **Note:** Listed dimensions are nominal

- Mating parts securely connect flat panels.
- Ideal for materials with variance, multiple layers, and compressible materials.

RACHET RIVETS	DIMENS	IONS	MOUNTING		
PART NUMBER	HEAD DIAMETER	HEAD HEIGHT	HOLE DIAMETER	GRIP Range	
236-170406-00	.750"	.093"	.281"	.235"297"	
236-170406-02	.750"	.093"	.281"	.346" - 500"	
236-170406-03	.750"	.093"	.281"	.500"812"	
236-170406-04	.750"	.093"	.281"	.780" - 1.375"	
236-170406-05	.406"	.062"	.281"	.235"297"	
236-170406-07	.406"	.062"	.281"	.346" - 500"	
236-170406-08	.406"	.062"	.281"	.500"812"	
236-170406-09	.406"	.062"	.281"	.780" - 1.375"	

# SNAP-RIVETS



Material: Nylon 66

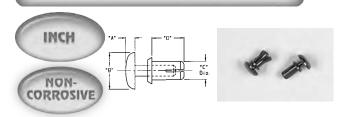
**Colors**: Clear, Natural, black - custom available

Note: Listed dimensions are nominal

- Mating parts securely connect flat panels.
- Used extensively in the medical industry.
- Ideal for compressible materials.

SNAP RIVET	DIMEN	ISIONS	MOUNTING		
MALE PART Number	FEMALE PART Number	HEAD DIA.	HEAD HEIGHT	HOLE DIA.	GRIP Range
236-220603-00	236-220604-00	.625"	.062"	.320"	.170"190"
236-220603-02	236-220604-00	.625"	.062"	.320"	.220"240"
236-220603-05	236-220604-01	.460"	.062"	.320"	.170"190"
236-220603-10	236-220604-00	.625"	.062"	.320"	.320"340"
236-220603-10	2700-00	.625"	.062"	.320"	.740"770"

# **MINI PRO-LOK RIVET**



Material: Nylon 66 Color: Black

Notes: UL94 V-2 Rating

Listed dimensions are nominal

- Smooth oversized head and polished surface provide excellent external appearance.
- Inserts and installs easily by hand.
- Removable with flat head screwdriver head (Pry open).
- Streamlined size Ideal for electronic applications.

MINI		DIMEN	ISIONS	MOUNTING		
PRO-LOK RIVET Part number	A	В	C	D	HOLE DIAMETER	GRIP RANGE
1116-17	.082"	.315"	.155"	.278"	.161"169"	.177"217"
1116-21	.071"	.315"	.158"	.315"	.161"169"	.217"256"
1116-29	.071"	.315"	.158"	.394"	.161"169"	.295"335"





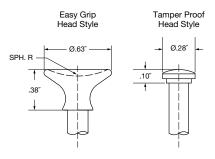


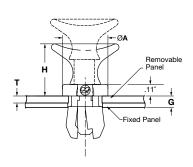
# NEW

# PANEL FASTENERS DRIVE RIVETS

**NYLATCH® 1-PIECE RIVET** 

- High assembly speed.
- Easy grip, or tamper-resistant head styles.
- Fastener captivates in outer panel.
- Non-corrosive, non-conductive.
- · High cycle life.







# **Panel Preparation**

Panel Pre	eparation			
Hole Dia. Hole Dia. Removable Fixed Panel Panel		Head Style		
.238"242"	.254"259"	Tamper Proof		
.294"299"	.316323"	Easy Grip		

<u>Material</u>:

Nylon, UL94 V2 Rated

**Colors:** 

**Black or white** 

Please call for samples to try in your application. 800-747-7405

Head Style	H N	lax.	Load	Weight per	
neau Style	Latched	Unlatched	Tension	Shear	100 Pieces
Tamper Proof	.21"	.37"	50 Lbs.	75 Lbs.	.10 Lbs.
Easy Grip	.48"	.65"	60 Lbs.	150 Lbs.	.32 Lbs.

## **Part Numbers**

Head Style	G-Grip Range	T Max.	Α	Color	Part Number	
Tamper Proof	Tamper Proof .076"165" .057"	.057" .34"		Black	NY-N4-2-3-20	
Tallipel Floor	.070103	.037	.34"	White	NY-N4-2-3-10	
Foor Crip	.182"271"	100"	40"	Black	NY-N5-4-1-20	
Easy Grip	.1022/1	.102	62" .42" White	.162" .42" W	White	NY-N5-4-1-10

# **Installation:**



The 1-piece Nylatch® grommet and plunger are molded into a single unit.



To install, insert the grommet end through previously drilled holes in the removable panel and fixed panel (see table above for hole diameters). The drive the plunger into the grommet by striking the head with a mallet.



As the plunger penetrates the grommet, the grommet expands, locking the panel to the fixed panel.



To release the removable panel: simply pull the plunger up, allowing the grommet to contract. The panels can then be separated. The 1-piece Nylatch® is held captive and ready for reuse.



# **PANEL FASTENERS DRIVE RIVETS**





# **NYLATCH® 2-PIECE FASTENER**

5/16

A B







**Economical choice.** 

- 3 head styles.
- Non-conductive, non-corrosive.
- Order plunger & grommet separately.

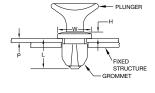
**How to Order** 

Figure 1

**Grip and Top Panel Thickness** 

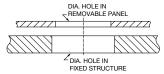


# **Assembly Dimensions**



## **Panel Preparation**

(see sizes below)



### Note:

Mini Grip (-4)

See hold dimension information for each fastener size at right.

# Removable Panel Fixed GRIP Grommet shown without plunger.

# .26" 3/16" Diameter Plunger

.26 .10'

.25"

В

1/4"

.10" .30" .11"

.28"

.32" .28" .38" .30"

Sheet Ca	pacity		Dimensions	Length Number <sup>1</sup>		
G Range	P Max.	H Max.	H Max. L Max W Dia.		Grommet	Plunger
.056"153"	.042"	.065"	.330"	.255"	-31	-32
.079"176"	.065"	.050"	.346"	.255"	-32	-32
.112"209"	.098"	.050"	.490"	.255"	-33	-33 <sup>2</sup>
.152"249"	.138"	.050"	.430"	.255"	-34	-34

## **Hole Diameters**

**Hole Diameters** 

Removable Panel: .180" to .183" Fixed Structure: .189" to .192" Operable Hole Misalignment: ±.007

Removable Panel: .238" to .242"

Operable Hole Misalignment: ±.019

Fixed Structure: .250" to .254"

Add the thicknesses of the two panels in which the fastener is to be used (Figure 1). Include the thickness of any paint or coatings. This sum must fall within a range tabulated for each fastener size on the following page.

## 2. Outer Panel Thickness (P)

For any Grip range there is a maximum outer panel thickness, P (Figure 1). Select the appropriate grommet by using P Max from the grommet and plunger tables.

## 3. Complete Part Number

With each grip and outer panel size you will find a matching pair of Plunger and Grommet lengths tabulated. Use these two length numbers to form the part numbers that together will provide a fastener assembly that fits your application.

## 4. Finish Part Number

Plunger head styles and material/color combinations are added last. The options are shown in the part number scheme lavout.

## 1/4" Diameter Plunger

Sheet Capacity			Dimensions	Length Number <sup>1</sup>		
G Range	P Max.	H Max.	L Max	W Dia.	Grommet	Plunger
.059"148"	.042"	.079"	.371"	.336"	-41	-42 <sup>2</sup>
.084"173"	.065"	.064"	.386"	.336"	-42	-42 <sup>2</sup>
.118"207"	.098"	.064"	.430"	.336"	-43	-43
.182"217"	.162"	.064"	.494"	.336"	-44	-44 <sup>2</sup>

## 5/16" Diameter Plunger

Sheet Ca	pacity		Dimensions		Length Number <sup>1</sup>		
G Range	P Max.	H Max.	L Max	W Dia.	Grommet	Plunger	
.059"148"	.042"	.095"	.371"	.420"	-51	-52 <sup>2</sup>	
.084"173"	.065"	.080"	.387"	.420"	-52	-52 <sup>2</sup>	
.118"207"	.098"	.080"	.429"	.420"	-53	-53 <sup>2</sup>	
.182"217"	.162"	.080"	.494"	.420"	-54	-54 <sup>2</sup>	
.230"139"	.210"	.080"	.542"	.420"	-55	-55	

## **Hole Diameters**

Removable Panel: .294" to .299" Fixed Structure: .316" to .323" Operable Hole Misalignment: ±.020

# Notes (for all 3 tables):

**Plunger Part Numbers** 

- Use to build part number. You must use the Plunger Number matching the Grommet Number as shown in these tables when ordering.
- Available in Tamper proof head style.

NY-WP-XX-Z-YY

# **Grommet Part Numbers** NY-WG-XX-

## Color & Material

- -20 = Black Polycarbonate (UL 94 V-2) -10 = White Polycarbonate (UL 94 V-2) -17 = Gray Polycarbonate (UL 94 V-2)
- -15 = Clear Polycarbonate (UL 94 V-2)
- -30 = Black Polysulfone (UL 94 V-0) -31 = Natural Polysulfone (UL 94 V-0)
- -40 = Black Acetal (UL 94 HB)
- -41 = White Acetal (UL 94 HB)

**Grommet Length Number** 

(See Grommet and Plunger Tables on previous page)

Series Size **3**=.188" Dia. **4**=.250" Dia. **5**=.313" Dia

Color & Material

-50 = Black Nylon (UL 94 V-2)

-51 = White Nylon (UL 94 V-2)

-52 = Gray Nylon (UL 94 V-2)

-60 = Black Polyester (UL 94 V-2)

-62 = Natural Polyester (UL 94 V-0)

Head Style (See Drawings)

-1 = Easy Grip<sup>1</sup>

-3 = Tamper Proof<sup>2</sup>

-4 = Mini Grip

Plunger Length Number<sup>3</sup> (See Grommet and Plunger Tables on Previous Pages)

Series Size

3=.188" Dia.

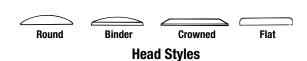
**4**=.250" Dia.

5=.313" Dia

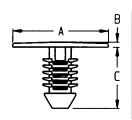


# PANEL FASTENERS "PUSH" FASTENERS

- Wide variety of head diameters, installation hole sizes, and grip ranges.
- Easy to install by hand.
- Very secure.
- Accommodates tolerances in panel thickness.

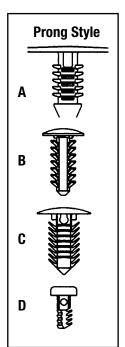


# **CHRISTMAS TREE™ CLIPS**









	DIMENSIONS			MOU	NTING	STYLE		
CHRISTMAS TREE Part Number	HEAD DIA. "A"	HEAD HEIGHT "B"	PRONG Length "C"	HOLE DIAMETER	GRIP RANGE	POINT SYTLE	HEAD Style	PRONG Style
354-125300-00	.240"	.080"	.318"	.120"130"	.135"250"	BLUNT*	FLAT	D
354-156001-00	.375"	.090"	.551"	.151"161"	.035"312"	BLUNT	FLAT*	Α
354-120240-00	.437"	.070"	.452"	.182"192"	.035"210"	CONICAL	FLAT	Α
354-190001-00	.437"	.070"	.650"	.182"192"	.080"402"	CONICAL	FLAT	Α
354-190001-01	.337"	.050"	.560"	.182"192"	.080"400"	CONICAL	ROUND	Α
354-190300-00	.438"	.080"	1.39"	.182"192"	.200" - 1.15"	ROUND	FLAT	Α
354-200102-00	.470"	.039"	.700"	.185195"	.100"600"	CONICAL	BINDER*	Α
354-200101-00	.750"	.070"	.710"	.190"200"	.060"480"	TRIANGLE	FLAT*	Α
354-220000-00	.500"	.059"	.955"	.223"233"	.140"750"	CONICAL	BINDER	С
354-250304-00	.618"	.125"	.404"	.240"260"	.075"185"	ROUND	FLAT	С
354-250103-00	.750"	.040"	.510"	.245"255"	.095"320"	TRIANGLE*	FLAT	Α
354-070201-00	.750" square	.055"	1.08"	.245"255"	.040"750"	CONICAL	FLAT	Α
354-250303-00	.995"	.060"	1.47"	.245"255"	.065" - 1.25"	CONICAL	FLAT	Α
2601-00	.700"	.100"	.561"	.245"255"	.070"400"	TRIANGLE*	ROUND	С
2607-00	.500"	.060"	.571"	.245"255"	.070"400"	TRIANGLE*	ROUND	С
2630-00	.700"	.075"	1.04"	.245"255"	.110"800"	CONICAL	ROUND	В
2631-00	.700"	.075"	1.35"	.245"255"	.410" - 1.13"	CONICAL	ROUND	В
354-250302-00	1.25"	.059"	.451"	.247"257"	.110"370"	TRIANGLE	FLAT	Α
354-280301-00	.937"	.083"	.730"	.276"286"	.050"440"	TRIANGLE	CROWNED	Α
354-280302-00	1.22"	.090"	1.14"	.276"286"	.350"800"	CONICAL	FLAT*	Α
354-182740-00	.500"	.060"	.950"	.276"286"	.250"800"	CONICAL	ROUND	С
354-280308-01	.808"	.053"	.675"	.281"286"	.155"500"	TRIANGLE*	FLAT*	Α
354-280307-00	.760"	.110"	1.28"	.276"286"	.050"900"	TRIANGLE	CROWNED	Α
354-280308-00	.620"	.040"	.770"	.276"286"	.093"470"	TRIANGLE	FLAT	Α
354-280317-00	.600"	.060"	1.32"	.276"286"	.100"870"	CONICAL	CROWNED	Α
354-280318-00	.600"	.060"	2.03"	.276"286"	.810" - 1.58"	CONICAL	CROWNED	Α
354-280319-00	.600"	.060"	2.73"	.276"286"	1.52" - 2.29"	TRIANGLE	CROWNED	Α
354-280305-00	1.25"	.090"	1.23"	.281"291"	.530"920"	CONICAL	BINDER	Α
354-310101-00	.380" x .500"	.090"	.540"	.315"325"	.093"400"	BLUNT	CROWNED*	Α
354-310102-00	.500"	.050"	.660"	.312"325"	.130"500"	BLUNT	BINDER	Α
2622-00	.750"	.120'	1.12"	.374"414"	.395"700"	CONICAL	BINDER	В

Part is modified and different from the diagram.

Please call for a complete drawing or samples of the part.

Point Style









Material: Nylon.

Formulations to suit specific applications are available.

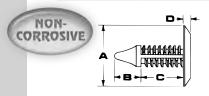
**Color**: Natural, black - custom available.

Note: Listed dimensions are nominal

# **PANEL FASTENERS** "PUSH" FASTENERS

# PINE TREE CLIP® **REMOVABLE STYLE**

- Patented design assures that retaining fins will not be damaged or distort upon removal.
- Removable feature excellent for field use.
- Easy to install by hand.





# **Head Styles**

Round

Flat

Crowned

**Material: Nylon** 

NON-CORROSIVE

Color: **Black - custom available** 

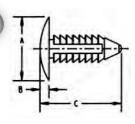
Note: Listed dimensions are nominal

PINE-TREE CLIP		DIMENSIONS		MOU	NTING	
REMOVABLE PART NUMBER	HEAD DIA. "A"	PRONG LENGTH "B+C"	HEAD HEIGHT "D"	HOLE Diameter	GRIP Range	HEAD Style
36030001	.216"	.386"	.060"	.118"	.069"197"	FLAT
36030002	.216"	.661"	.060"	.118"	.160"472"	FLAT
260500	.187"	.220"	.040"	.125"	.045"070"	ROUND
36050001	.433"	.496"	.040"	.197"	.067"315"	FLAT
36050003	.433"	.700"	.040"	.197"	.060"430"	FLAT
261900	.472"	.472"	.098"	.236"	.079"236"	ROUND
36063007	.728"	.749"	.100"	.250"	.028"510"	ROUND
36063009	.625"	.649"	.060"	.250"	.173"394"	ROUND
261701	.625"	.791"	.060"	.250"	.173"571"	ROUND
36063022	.728"	.433"	.090"	.250"	.030"291"	ROUND
36070015	.748"	1.31"	.060"	.276"	.063" - 1.00"	ROUND
36070005*	1.00"	.787"	.118"	.276"	.080"532"	ROUND
36070007*	1.00"	1.46"	.118"	.276"	.080" - 1.26"	ROUND
36070010	.748"	1.08"	.060"	.276"	.138"710"	ROUND
36079005	1.00"	.945"	.118"	.311"	.040"472"	ROUND
36079004	.752"	.895"	.106"	.311"	.025"512"	CROWNED
36079010*	1.00"	.560"	.118"	.311"	.040"433"	ROUND

<sup>\*</sup> Parts feature a textured head

# PINE TREE CLIP® **NON-REMOVABLE STYLE**







**Material: Nylon** 

Color: **Black - custom available** 

**Listed dimensions are nominal** Note:

- Circular fin assures part cannot be pried out of the installation.
- Vandalism resistant.
- Very secure.
- Easy to install by hand.

PINE-TREE CLIP		DIMENSIONS			MOUNTING		
NON-REMOVABLE PART NUMBER	HEAD DIA. "A"	PRONG LENGTH "C-B"	HEAD HEIGHT "B"	HOLE Diameter	GRIP RANGE	HEAD STYLE	
39050001	.394"	.475"	.040"	.197"	.063"252"	BINDER	
39050006	.395"	.580"	.040"	.197"	.090"400"	BINDER	
39063010	.700"	.800"	.100"	.250"	.098"472"	BINDER	
39065005	.700"	.510"	.100"	.250"	.078"236"	BINDER	
39088501	.630"	.752"	.098"	.340"	.055"395"	BINDER	
39100001	.846"	1.12"	.157"	.394"	.060" - 787"	BINDER	





Non-removable, vandalism resistant drive rivets can be found on page 219.

PANEL FASTENERS, "PUSH" FASTENERS

• Cost-effective, lightweight panel fastener.

DIMENSIONS

HEAD

DIAMETER

"C"

.270"

.406"

.406

.300'

.406

.300"

.300"

.375"

.500"

.875

.750

PRONG

LENGTH

"D"

330'

.275"

365

365

.437

.437

.330"

.437'

.630"

.630

Easy, hand installation in round hole.

HEAD

HEIGHT

"B"

040"

.150"

100'

100'

.100'

.100'

.060"

.060"

.055"

.090'

Non-corrosive material.

**CANOE CLIP** 

PART NUMBER

254-080845-00

254-090401-00

254-090501-00

254-090501-01

254-090601-00

254-090601-01

254-090301-00

254-120601-00

254-160801-00

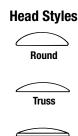
254-160801-01

254-160801-03

254-160801-02

1	
	HEAD Style
1	BINDER
1	ROUND
1	ROUND
1	ROUND
	ROUND
	ROUND
	ROUND
	TRUSS
	TRUSS
	TRUSS
	TRUSS
	PAN

**CANOE® CLIPS** 







Binder

Pan



Material: Nylon

Color: Natural, black - custom available

MOUNTING

GRIP

RANGE

080" - 100"

.060" - .090"

.080" - .125"

.080" - .125"

.115" - .160"

.115" - .160"

.060" - .070"

.100" - .160"

.095" - .218"

.095" - .218"

.095" - .218"

.095" - .218"

HOLE

DIAMETER

.123" - .127

.131" - .141"

.131" - .141

.131" - .141'

.131" - .141'

.131" - .141'

.135" - .140"

.182" - .192

.240" - .260"

.240" - .260

.240" - .260"

.240" - .260"

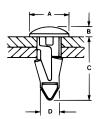
- Secure fastening.
- Non-removable from front, removable from rear.
- Easy, hand installation in round hole.

		DIMEN	ISIONS	MOUNTING		
STALOK Part Number	HEAD DIA. "A"	HEAD HEIGHT "B"	PRONG LENGTH "C"	PRONG DIA. "D"	HOLE Diameter	GRIP Range
215-120106-00	.325"	.075"	.586"	.187"	.182"192"	.125"160"
215-120106-02	.437"	.148"	.596"	.187"	.182"192"	.125"160"
215-120106-03	.375"	.093"	.607"	.187"	.182"192"	.130"175"

<u>Material</u>: Nylon <u>Color</u>: Natural

# STALOK™ FASTENERS







# DOUBLE-END CHRISTMAS TREE™



- · Completely blind.
- Secure and non-corrosive.





DOUBLE END	"A" SID	"A" SIDE MOUNTING		"B" SIDE MOUNTING	
PART NUMBER	HOLE	GRIP	HEIGHT	HOLE	GRIP
FART NUMBER	DIA.	RANGE	"B"	DIA.	RANGE
354-201960-00	.320"	.125"375"	.040"	.320"	.140"750"
354-162200-00	.156"	.105"250"	.067"	.156"	.105"250"
2610-00	.250"	.020"270"	.110"	.250"	.020"270"
2627-00	.320"	.095"300"	.040"	.320"	.095"300"

Please Call for Additional Dimensions or Samples

# DOUBLE-HEAD CHRISTMAS TREE™



 Twist-action secures top panel, then top panel assembly is pushed into second panel or frame.





Material: Nylon Color: Natural

DOUBLE HEAD	SPIN-IN HEAD MOUNTING HOLE PANEL DIA. THICKNESS		GAP		TMAS TREE DUNTING
PART NUMBER			"C"	HOLE DIA.	GRIP Range
354-280113-00	.394"	.050"080"	.020"	.281"	.030"220"
354-280103-00	.370" .080"110"		.105"	.281"	.030"470"

# **PANEL FASTENERS**SCREW GROMMETS

# **PLASTI-GROMMETS™**



- Easy "snap-in" installation.
- Self-retaining in the panel.
- Works as a panel stand-off.
- Spreads load over a large area to achieve high load bearing capacity.
- Insulates at fastening point against electrolytic action.
- Non-conductive, non-corrosive.

	DII	MENSIONS		MOUN		
PLATI-GROMMETS Part Number	HEAD SIZE "A"	HEAD HEIGHT "B"	PRONG LENGTH "C"	HOLE SIZE	PANEL THICKNESS	SCREW SIZE
UARE HEAD STYLE						
212-110302-00	.218" SQUARE	.050"	.228"	.175" SQUARE	.031"078"	4
212-160404-08	375" SQUARE	.189"	.291"	.253" SQUARE	.031"109"	6
212-180402-91	375" SQUARE	.305"	.296"	.273" SQUARE	.031"109"	6
242-160502-70	375" SQUARE	.031"	.296"	.250" SQUARE	.031"125"	6 or 8
242-170602-83	375" SQUARE	.035"	.335"	.275" SQUARE	.031"140"	6 or 8
242-170602-80	375" SQUARE	.033"	.340"	.273" SQUARE	.031"156"	8
242-170602-84	375" SQUARE	.035"	.340"	.283" SQUARE	.031"156"	8
212-180402-06	.406" SQUARE	.030"	.296"	.273" SQUARE	.031"109"	8 or 10
242-180602-90	.406" SQUARE	.033"	.340"	.283" SQUARE	.031"156"	8 or 10
242-180602-91	.406" SQUARE	.062"	.340"	.283" SQUARE	.031"156"	8 or 10
212-180602-10	375" SQUARE	.045"	.359"	.284" SQUARE	.031"156"	8 or 10
212-180402-55	.500" SQUARE	.125"	.296"	.284" SQUARE	.031"109"	8 or 10
212-240402-04	.625" SQUARE	.078"	.340"	.383" SQUARE	.031"156"	10
212-240602-04	.625" SQUARE	.078"	.359"	.375" SQUARE	.031"156"	1/4-20
212-240402-00	.625" SQUARE	.078"	.286"	.378" SQUARE	.031"109"	1/4-20
212-270402-01	.562" SQUARE	.078"	.327"	.428" SQUARE	.031"109"	5/16-18
CULAR HEAD STYLE						
212-170602-37	.500" DIAMETER	.500"	.340"	.283" SQUARE	.031"156"	8
212-170402-01	.375" DIAMETER	.672"	.296"	.273" SQUARE	.031"109"	8 or 10
212-180402-66	.500" DIAMETER	.250"	.296"	.273" SQUARE	.031"109"	8 or 10
212-180402-73	.500" DIAMETER	.937"	.296"	.273" SQUARE	.031"109"	8 or 10
212-170602-05	.500" DIAMETER	1.375"	.296"	.273" SQUARE	.031"109"	8 or 10
212-180402-11	.562" DIAMETER	.562"	.296"	.273" SQUARE	.031"109"	8 or 10
212-180402-40	.493" DIAMETER	.375"	.296"	.283" SQUARE	.031"109"	8 or 10
212-180402-38	.493" DIAMETER	.500"	.296"	.283" SQUARE	.031"109"	8 or 10
212-180402-37	.493" DIAMETER	.625"	.296"	.283" SQUARE	.031"093"	8 or 10
212-180402-51	.493" DIAMETER	.687"	.296"	.283" SQUARE	.031"109"	8 or 10
212-180402-53	.493" DIAMETER	.750"	.296"	.283" SQUARE	.031"109"	8 or 10
242-180602-92	.500" DIAMETER	.098"	.340"	.283" SQUARE	.031"156"	8 or 10
242-180602-93	.500" DIAMETER	.130"	.340"	.283" SQUARE	.031"156"	8 or 10
212-180402-15	.500" DIAMETER	.250"	.296"	.283" SQUARE	.031"109"	8 or 10
212-180402-69	.500" DIAMETER	.312"	.296"	.283" SQUARE	.031"109"	8 or 10
212-180602-13	.500" DIAMETER	.375"	.340"	.283" SQUARE	.031"156"	8 or 10
212-180402-83	.547" DIAMETER	1.062"	.296"	.283" SQUARE	.031"109"	8 or 10
242-210602-10	.562" DIAMETER	.062"	.340"	.337" SQUARE	.031"156"	1/4-20
212-240402-07	.687" DIAMETER	.375"	.340"	.383" SQUARE	.031"156"	1/4-20
212-240602-00	.687" DIAMETER	.469"	.340"	.383" SQUARE	.031"156"	1/4-20
TANGULAR HEAD STYLE						
212-170602-00	.500" x .750""	.040"	.340"	.273" SQUARE	.031"156"	8 or 10
212-170002-00	RECTANGLE	.040	.540	.273 SQUARE	.031130	1 00110







**Material**: Nylon

Color: Natural -

custom available.

Note: Listed dimensions

are nominal.





# **PANEL FASTENERS SCREW GROMMETS**

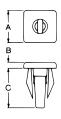
- Easy "snap-in" installation.
- **Encloz** grommet captures the end of the metal screw providing electrical insulation and protecting against temperature/moisture transfer and exposed screw points.
- Acts as a panel stand-off.
- Non-conductive, non-corrosive.

I	ENCLOZ	DIM	MENSIONS		MOUNTING			
	SCREW GROMMETS PART NUMBER	HEAD Size "A"	HEAD HEIGHT "B"	PRONG LENGTH "C"	HOLE SIZE	PANEL Thickness Range		SCREW SIZE
ı	217-180502-22	.380" SQUARE	.125"	.490"	.273" SQUARE	.020"140"	П	8 or 10
ı	217-180502-24	.380" SQUARE	.250"	.480"	.273" SQUARE	.020"140"	П	8 or 10
İ	217-180502-26	.380" SQUARE	.375"	.490"	.273" SQUARE	.020"140"	H	8 or 10
ı	217-180502-35	.380" SQUARE	.030"	.490"	.271" SQUARE	.020"140"	П	8 or 10
١	217-180502-04	.380" SQUARE	.250"	.490"	.283" SQUARE	.020"140"	11	8 or 10
١	217-180502-05	.380" SQUARE	.312"	.490"	.283" SQUARE	.020"140"	П	8 or 10
ı	217-180502-06	.380" SQUARE	.375"	.490"	.283" SQUARE	.020"140"	П	8 or 10
ı	217-180502-08	.380" SQUARE	.500"	.490"	.283" SQUARE	.020"140"	П	8 or 10
İ	217-200502-06	.380" SQUARE	.380"	.480"	.312" SQUARE	.020"140"	H	8 or 10

**ENCLOZ® SCREW GROMMETS** 







**Material:** Nylon **Color**: **Natural** Note: **Listed dimensions are nominal** 

312" SQUARE

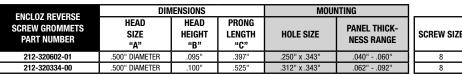
Ideal when components are fastened from the opposite side of the panel.

.380" SQUARE

- Non-conductive, captures the screw.
- Attractive decorative head.

217-200502-08

ENCLOZ	<b>Z®</b> REVERSE
SCREW	<b>GROMMETS</b>













NON-CORROSIVE

- Insulated screw grommet for round hole mounting.
- Special pin provides friction fit into the hole.

# **ROUND HOLE SCREW GROMMETS**

ROUND HOLE	DIMENSIONS			MOUNTING		
SCREW GROMMET PART NUMBER	HEAD Size "A"	HEAD HEIGHT "B"	PRONG LENGTH "C"	HOLE SIZE	PANEL THICKNESS RANGE*	S
212-250301-00	.500" DIAMETER	.060"	.390"	.248"265" DIA.	.020"250"	

panel hole size will vary with panel thickness

**Material: Nylon Natural** Color:

Note: **Listed dimensions are nominal** 





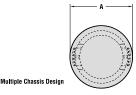




# PANEL FASTENERS HOLE PLUGS











# **DOMED PLUGS**



- Convex head tapers to a thin edge.
- Wide range of hole sizes and panel thicknesses.
- Custom colors are available.

PART NUMBER		DIMEN	SIONS	MOUNTING	
BLACK	WHITE	HEAD DIAMETER "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
2590	2591	.250"	.234"	.062"	.187"
2603	2604	.312"	.312"	.062"	.250"
2613	2614	.375"	.312"	.062"	.312"
2617	2618	.468"	.406"	.125"	.375"
2633	2634	.531"	.406"	.125"	.437"
2643	2644	.578"	.406"	.125"	.500"
2653	2654	.656"	.406"	.125"	.562"
2663	2664	.718"	.406"	.125"	.625"
2673	2674	.781"	.406"	.125"	.687"
2683	2684	.921"	.406"	.125"	.750"
2693	2694	.890"	.406"	.125"	.812"
2703	2704	1.015"	.453"	.125"	.875"
2713	2714	1.203"	.453"	.125"	1.000"
2723	2724	1.218"	.453"	.125"	1.125"
2733	2734	1.312"	.453"	.125"	1.187"
2740	2741	1.375"	.453"	.125"	1.250"
2753	2754	1.500"	.453"	.125"	1.375"
2763	2764	1.671"	.453"	.125"	1.500"
2773	2774	1.906"	.453"	.125"	1.750"
2783	2784	2.170"	.469"	.125"	2.000"
2403	2404	2.343"	.760"	.250"	2.125"
2411	2412	2.422"	.750"	.250"	2.250"
2790	2791	2.718"	.750"	.250"	2.500"
2455	2456	3.171"	.750"	.250"	3.000"
2482	2483	3.656"	.750"	.250"	3.375"
2464	2465	3.656"	.750"	.250"	3.500"
2473	2474	4.156"	.750"	.250"	4.000"
2451	2452	5.219"	.781"	.250"	5.000"
2453	2454	6.219"	.781"	.250"	6.000"

<u>Material</u>: Nylon

Certifications: 91 E-15331

(F) LR-8919

Flammability rating: 94V-2

# HALOGEN-FREE 94V-0 DOME PLUGS



 Same features as standard dome plugs in a halogen-free material.

	DIMEN	ISIONS	MOU	NTING
PART NUMBER	HEAD DIAMETER	OVERALL HEIGHT	Maximum Panel	HOLE DIAMETER
BLACK UL94V-0	"A"	"B"	THICKNESS	DIAMETER
2593*	.265"	.240"	.062"	.187"
2606*	.312"	.312"	.062"	.250"
2616*	.375"	.312"	.062"	.312"
2623	.468"	.406"	.125"	.375"
2636	.531"	.406"	.125"	.437"
2646	.578"	.406"	.125"	.500"
2666	.718"	.406"	.125"	.625"
2686	.921"	.406"	.125"	.750"
2706	1.015"	.453"	.125"	.875"
2716	1.203"	.453"	.125"	1.000"
2729	1.218"	.453"	.125"	1.125"

\* Single chassis design.

Material: Nylon

Certifications: 91 E-15331

(§) LR-8919

Flammability rating: 94 V-0

# **DOME PLUGS**



DART		DIMEN	ISIONS	MOUN	ITING		
PARIN	UMBER	HEAD	OVERALL	MAXIMUM	HOLE		
BLACK	WHITE	Diameter "a"	HEIGHT PANEL "B" THICKNES			PANEL THICKNESS	DIAMETER
2128	2130	18.5 mm	10.3 mm	2.5 mm	16 mm		
2131	2132	22.6 mm	10.3 mm	2.5 mm	20 mm		
2133	2134	29.8 mm	11.5 mm	2.5 mm	25 mm		
2135	2136	35.3 mm	11.5 mm	2.5 mm	32 mm		

Material: Nylon

Certifications: 9\(\) E-15331

(§) LR-8919

Flammability rating: 94V-2



# **PRY-OUT PLUGS**









- Removable for access or re-use of the hole.
- Can act as a bumper (head thickness .063").
- · Flat, matte finish.

PART N	UMBER	DIMEN	SIONS	MOU	NTING
BLACK	WHITE	HEAD DIAMETER "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
3053	3054	.421"	.328"	.156"	.250"
3056	3057	.510"	.406"	.172"	.312"
3059	3060	.578"	.312"	.172"	.375"
3062	3063	.609"	.406"	.172"	.437"
3065	3066	.671"	.406"	.172"	.500"
3068	3069	.734"	.406"	.172"	.562"
3071	3072	.796"	.406"	.172"	.625"
3074	3075	.890"	.406"	.172"	.687"
3077	3078	.968"	.406"	.172"	.750"
3080	3081	1.031"	.406"	.172"	.812"
3083	3084	1.078"	.406"	.172"	.875"
3086	3087	1.218"	.406"	.172"	1.000"
3089	3090	1.296"	.406"	.172"	1.093"
3092	3093	1.406"	.406"	.172"	1.187"
3095	3096	1.453"	.406"	.172"	1.250"
3098	3099	1.578"	.453"	.172"	1.375"
3124	3125	1.718"	.453"	.250"	1.500"

PART N	PART NUMBER		SIONS	MOUNTING	
BLACK	WHITE	HEAD DIAMETER "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
2600*	2601*	.312"	.312"	.062"	.250"
2610*	2611*	.375"	.312"	.062"	.312"
2620	2621	.468"	.406"	.125"	.375"
2630	2631	.531"	.406"	.125"	.437"
2640	2641	.563"	.406"	.125"	.500"
2650	2651	.656"	.406"	.125"	.562"
2660	2661	.734"	.406"	.125"	.625"
2680	2681	.859"	.406"	.125"	.750"
2700	2701	.953"	.453"	.125"	.875"
2710	2711	1.125"	.453"	.125"	1.000"
2720	2721	1.218"	.453"	.125"	1.125"
2730	2731	1.312"	.453"	.125"	1.187"

\* Single chassis design.

(All Items) <u>Material</u>: Nylon

Certifications: 91 E-15331 ( LR-8919

Flammability rating: 94V-2

# **SHORTY PLUGS**









- Limited internal protrusion.
- Locks firmly in panel.
- Quick, easy hand installation.

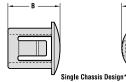
PART N	UMBER	DIMEN	ISIONS	MOUN	ITING
BLACK	WHITE	HEAD DIAMETER "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
1654	1655	.281"	.250"	.062"	.218"
1660	1661	.343"	.250"	.062"	.281"
1678	1679	.375"	.250"	.062"	.312"
1663	1664	.406"	.250"	.062"	.343"
1681	1682	.468"	.250"	.062"	.375"
1666	1667	.468"	.250"	.062"	.406"
1684	1685	.531"	.250"	.062"	.437"
1669	1670	.531"	.250"	.062"	.468"
1687	1688	.563"	.250"	.062"	.500"
1672	1673	.593"	.250"	.062"	.531"
1675	1676	.687"	.250"	.062"	.593"
1690	1691	.718"	.250"	.062"	.625"
1693	1694	.843"	.250"	.062"	.750"
1696	1697	.890"	.250"	.062"	.781"
1699	1700	.968"	.250"	.062"	.875"
1702	1703	1.200"	.250"	.062"	1.000"

# **GLOSSY PLUGS**

- Smooth glossy head has shiny finish.
- Can also act as a glide.

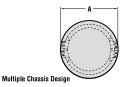












# PANEL FASTENERS HOLE PLUGS

# **VENT PLUGS**



- Allows air to flow and heat to escape.
- Locks firmly into panel.
- Quick, easy hand installation.







PART N	PART NUMBER		DIMENSIONS	MOUNTING		
		HEAD DIAMETER	OVERALL HEIGHT	NUMBER OF	MAXIMUM PANEL	HOLE
BLACK	WHITE	"A"	"B"	HOLES	THICKNESS	DIAMETER
2637	2638	.578"	.406"	4	.156"	.250"
2657	2658	.734"	.406"	5	.172"	.312"
2677	2678	.906"	.406"	8	.172"	.375"
2697	2698	1.015"	.453"	9	.172"	.437"
2707	2708	1.203"	.453"	9	.172"	.500"
2726	2727	1.218"	.453"	9	.172"	.562"
2743	2744	1.375"	.453"	10	.172"	.625"
2797		1.375"	.453"	4	.172"	.687"
2756	2757	1.500"	.453"	11	.172"	.750"
2766	2767	1.671"	.453"	13	.172"	.812"
2776	2777	1.906"	.453"	13	.172"	.875"
2786	2787	2.140"	.468"	19	.172"	1.000"
2793	2794	2.718"	.750"	19	.172"	1.093"
2458	2459	3.171"	.750"	26	.172"	1.187"
2467	2468	3.656"	.750"	38	.172"	1.250"
2476	2477	4.156"	.750"	48	.172"	1.375"

Material: Nylon Certifications: ₹\(\mathbb{A}\) E-15331

(IR LR-8919

Flammability rating: 94V-2

# **WINDOW PLUGS**



- Allows viewing inside of enclosure.
- Locks firmly into panel.
- Quick, easy hand installation.







Multiple Chassis Des

PART N	UMBER	DIMEN	SIONS	MOU	NTING
BLACK	WHITE	HEAD DIAMETER "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
1300*	4300*	.250"	.234"	.062"	.187"
1301*	4301*	.312"	.312"	.062"	.250"
1302*	4302*	.375"	.312"	.062"	.312"
1303	4303	.468"	.406"	.125"	.375"
1304	4304	.531"	.406"	.125"	.437"
1305	4305	.563"	.406"	.125"	.500"
1307	4307	.734"	.406"	.125"	.625"
1309	4309	.859"	.406"	.125"	.750"
1311	4311	.953"	.453"	.125"	.875"
1312	4312	1.125"	.453"	.125"	1.000"
1313	4313	1.218"	.453"	.125"	1.125"
1314	4314	1.468"	.453"	.125"	1.375"
1316	4316	1.609"	.453"	.125"	1.500"
1318	4318	1.875"	.453"	.125"	1.750"
1319	4319	2.157"	.453"	.125"	2.000"

<sup>\*</sup> Single chassis design

Material: ABS-Clear Lexan-Clear

Flammability rating: ABS – 94HB

Lexan 94V-2

# **INSULATION PLUGS**



- Closes cavity-fill insulation holes in wood and other siding materials.
- Convex, matte finish blends with siding.
- Holds securely in hole.
- Quick, easy hand installation .

Material: Nylon Flammability Rating: 94V-2







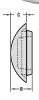
PART NUMBER		DIMEN	ISIONS	MOUNTING	
BLACK	WHITE	HEAD Diameter "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
3149	3150	1.234"	.687"	NO MAX.	1.000"



- Oil tight, rain tight, submersible.
- Fits standard knock-out holes.
- Quick, easy hand installation.







INCH

PART NUMBER		DIMENSIONS	мои	NTING	
	HEAD	OVERALL	HEAD	HOLE	MAXIMUM
BLACK	DIAMETER "A"	HEIGHT "B"	HEIGHT "C"	DIAMETER	PANEL THICKNESS
3833	1.28"	.500"	.359"	.875"	.125"
3835	1.53"	.546"	.390"	1.093"	.125"
3837	1.80"	.562"	.421"	1.375"	.125"

Material: Santoprene 251-80

**FL E-28430 Certifications:** 

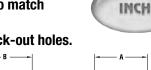
(R) LR-81067

Flammability rating: 94V-0

# **KNOCK-OUT SEALS**

- Plugs electrical knock-outs.
- Silver gray color to match galvanized steel.











TRADE	PART NUMBER		ISIONS	MOUN	NTING
SIZE	SILVER GRAY	HEAD Diameter "A"	OVERALL HEIGHT "B"	MAXIMUM PANEL THICKNESS	HOLE DIAMETER
1/2"	3997	1.015"	.453"	.125"	.875"
3/4"	3998	1.218"	.453"	.125"	1.093"
1"	3999	1.500"	.453"	.125"	1.375"
1-1/4"	4000	1.906"	.453"	.125"	1.750"
1-1/2"	4001	2.140"	.453"	.125"	2.000"
2"	4002	2.750"	.750"	.250"	2.500"

**Material:** Santoprene 251-80

**Certifications: 9**4 E-15331

(R LR-8919

Flammability rating: 94V-2

# **DOUBLE "D" PLUGS**

- Plugs standard strain relief holes and other double "D" holes.
- Installs quickly, locks firmly.







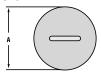


INCH

# **PG THREADED PLUGS**

- Threads into standard "PG" conduit threads.
- Slotted head for easy installation/removal.





HEAD

DIAMETER



OVERALL

HEIGHT

INCH

PART NUMBER		DIMENSIONS		MOUNTING		
BLACK WHITE		HEAD DIAMETER	OVERALL HEIGHT	MAXIMUM PANEL	HOLE DIAMETER	ANTI- ROTATION
		"A"	"B"	THICKNESS	"E"	"D"
2488	2489	.531"	.406"	.125"	.437"	.390"
2491	2492	.578"	.406"	.125"	.500"	.445"
2494	2495	.656"	.406"	.125"	.562"	.530"
2497	2498	.718"	.406"	.125"	.625	.550"
2503	2504	.921"	.453"	.125"	.750"	.625"
2509	2510	1.016"	.453"	.125"	.875"	.770"

**Material:** Nvlon Flammability Rating: 94V-2 **Certifications: 91** E-15331 (1) LR-8919

TYPE/SIZE	TAIT NOMBER	"A"	"B"	
PG 7	3405	.551" (14 mm)	.315" (8 mm)	
PG 9	3407	.787" (20 mm)	.354" (9 mm)	
PG 11	3402	.866" (22 mm)	.354" (9 mm)	
PG 13	3412	.984" (25 mm)	.374" (9.5 mm)	
PG 16	3414	1.06" (27 mm)	.374" (9.5 mm)	
PG 21	3416	1.30" (33 mm)	.472" (12 mm)	
PG 29	3418	1.73" (44 mm)	.472" (12 mm)	

Material: Polymide 6.6

Color: Gray

THREAD

