

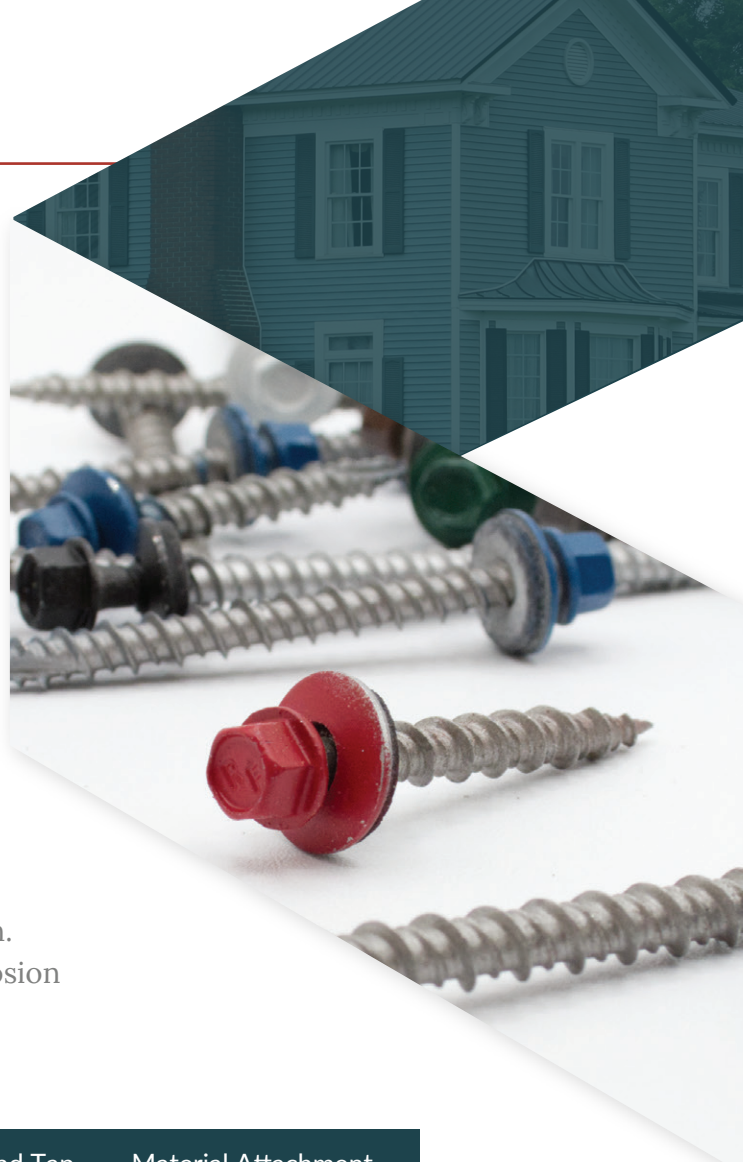
# WOODY®

## ▶ APPLICATIONS

- Roof and wall panels to wood framing.
- Stitch applications on roof and wall panels.
- Sheeting over insulation to wood framing.
- Attaching corner, rake and ridge cap trim pieces.

## ▶ PRODUCT FEATURES

- #9 Twin lead sharp point for fast material engagement and panel pick up.
- High hex head for driving stability.
- EPDM vulcanized bonded washer prevents leaks and damage to panels during installation.
- CR1000 plus 15 finish provides excellent corrosion protection and lower tapping torque.



## SELECTOR GUIDE

Description	Head Style	Drill Point	Drill and Tap Capacity	Material Attachment Range
9-15 x 1"	HWH	Twin Lead	.012 - .048	0 - .250
9-15 x 1½"	HWH	Twin Lead	.012 - .048	0 - .750
9-15 x 2"	HWH	Twin Lead	.012 - .048	.500 - 1.255
9-15 x 2½"	HWH	Twin Lead	.012 - .048	0 - .250
9-15 x 3"	HWH	Twin Lead	.012 - .048	1.500 - 2.250
12-14 x ¾"	HWH	Twin Lead	.012 - .048	---

## PERFORMANCE DATA

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Steel Gauge				
	26	24	22	20	18
9	171	252	329	401	634
10	151	238	291	359	478
12	199	271	360	462	656

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
9 - 15	1800	1200	50
10 - 16	1927	1400	71
12 - 14	2778	2000	92

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

# WOODY®

## PERFORMANCE DATA (continued)

PULLOUT VALUES IN WOOD (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Embedment in 2" x 4"				
	½"	¾"	1"	1¼"	1½"
9	198	328	571	728	872
10	256	710	755	1121	1358
12	273	801	863	1206	1465

PULL OVER (AVERAGE LBS. ULTIMATE)						
Fastener		Steel Gauge				
Dia.		26	24	22	20	18
9	Washed	515	674	875	1100	1627
10	Washed	548	682	922	1191	1688
12	Washed	587	744	983	1216	1734

### ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Woody®. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Items in stock may vary by location.

# SUPER WOODY®

## ▶ APPLICATIONS

- Roof and wall panels to wood framing.
- Stitch applications on roof and wall panels.
- Sheeting over insulation to wood framing.
- Attaching corner, rake and ridge cap trim pieces.

## ▶ PRODUCT FEATURES

- High hex head for driving stability.
- Sharp type 17 point penetrates metal quickly and avoids splitting wood structure.
- HI-LO threads achieve greater pullout than #9 in wood.
- EPDM vulcanized bonded washer prevents leaks and damage to panels during installation.
- CR1000 plus 15 finish provides excellent corrosion protection and lower tapping torque.



## SELECTOR GUIDE

Description	Head Style	Drill Point	Drill and Tap Capacity	Material Attachment Range
10-16 x 1"	HWH	Type 17	.012 - .048	0 - .250
10-16 x 1½"	HWH	Type 17	.012 - .048	0 - .750
10-16 x 2"	HWH	Type 17	.012 - .048	.012 - 0.48
10-16 x 2½"	HWH	Type 17	.012 - .048	1.000 - 1.750
10-16 x 3"	HWH	Type 17	.012 - .048	1.500 - 2.250
12-14 x ¾"	HWH	Twin Lead	.012 - .048	---

## PERFORMANCE DATA

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Steel Gauge				
	26	24	22	20	18
9	171	252	329	401	634
10	151	238	291	359	478
12	199	271	360	462	656

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
9 - 15	1800	1200	50
10 - 14	1927	1400	71
12 - 14	2778	2000	92

# SUPER WOODY®

## PERFORMANCE DATA (continued)

PULLOUT VALUES IN WOOD (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Embedment in 2" x 4"				
	½"	¾"	1"	1¼"	1½"
9	198	328	571	728	872
10	256	710	753	1121	1358
12	273	801	863	1206	1465

PULL OVER (AVERAGE LBS. ULTIMATE)						
Fastener		Steel Gauge				
Dia.		26	24	22	20	18
9	Washed	515	674	875	1100	1627
10	Washed	537	682	922	1191	1688
12	Washed	587	744	983	1216	1734

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Super Woody®. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Items in stock may vary by location.

# SUPER DUTY WOODY®

## ▶ APPLICATIONS

- Roof and wall panels to wood framing.
- Applications where extra strength is needed.
- Sheeting over insulation to wood framing.
- Repair or replacement screws for a #9 or #10 wood screw.

## ▶ PRODUCT FEATURES

- High hex head for driving stability.
- Sharp type 17 point penetrates metal quickly and avoids splitting wood structure.
- EPDM vulcanized bonded washer prevents leaks and damage to panels during installation.
- CR1000 plus 15 finish provides excellent corrosion protection and lower tapping torque.



## SELECTOR GUIDE

Description	Head Style	Drill Point	Drill and Tap Capacity	Material Attachment Range
12-14 x 1"	HWH	Type 17	.012 - .048	0 - .250
12-14 x 1½"	HWH	Type 17	.012 - .048	0 - .750
12-14 x 2"	HWH	Type 17	.012 - .048	.012 - .048
12-14 x 3"	HWH	Type 17	.012 - .048	1.500 - 2.250
12-14 x 4"	HWH	Type 17	.012 - .048	2.000 - 2.750
12-14 x ¾"	HWH	Twin Lead	.012 - .048	---

## PERFORMANCE DATA

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Steel Gauge				
	26	24	22	20	18
9	171	252	329	401	634
10	151	238	291	359	478
12	199	271	360	462	656

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
9 - 15	1800	1200	50
10 - 14	1927	1400	71
12 - 14	2778	2000	92

# SUPER DUTY WOODY®

## PERFORMANCE DATA (continued)

PULLOUT VALUES IN WOOD (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Embedment in 2" x 4"				
	½"	¾"	1"	1¼"	1½"
9	198	328	571	728	872
10	256	710	753	1121	1358
12	273	801	863	1206	1465

PULL OVER (AVERAGE LBS. ULTIMATE)						
Fastener		Steel Gauge (lapped)				
Dia.		26	24	22	20	18
9	Washed	515	674	875	1100	1627
10	Washed	537	682	922	1191	1688
12	Washed	587	744	983	1216	1734

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Super Duty Woody®. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range if 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Items in stock may vary by location.



# LONG LIFE SUPER WOODY®

with Stainless or Zinc Cap or all Stainless fastener

## ▶ APPLICATIONS

- For extreme environments where corrosion is a problem.
- Attach roof and wall panels to wood framing.
- Stitch applications on roof and wall panels.
- Sheeting over insulation to wood framing.
- Attaching corner, rake and ridge cap trim pieces.

## ▶ PRODUCT FEATURES

- Stainless fastener, stainless caps or zinc cap will never rust.
- High hex head for driving stability.
- Sharp type 17 point penetrates metal quickly and avoids splitting wood structure.
- HI-LO threads achieve greater pullout than #9 in wood.
- EPDM vulcanized bonded washer prevents leaks and damage to panels during installation.
- CR1000 plus 15 finish provides excellent corrosion protection and lower tapping torque.



## SELECTOR GUIDE

Description	Head Style	Drill Point	Drill and Tap Capacity	Material Attachment Range	All Stainless	Stainless Cap	Zinc Cap
10-16 x 1"	HWH	Type 17	.012 - .048	0 - .250	✓	✓	✓
10-16 x 1½"	HWH	Type 17	.012 - .048	0 - .750	✓	✓	✓
10-16 x 2"	HWH	Type 17	.012 - .048	.012 - .048	✓	✓	✓
10-16 x 2½"	HWH	Type 17	.012 - .048	1.000 - 1.750	✓	✓	✓
10-16 x 3"	HWH	Type 17	.012 - .048	1.500 - 2.250	✓	✓	✓
12-14 x ¾"	HWH	Twin Lead	.012 - .048	---	✓	✓	✓

# LONG LIFE SUPER WOODY®

with Stainless or Zinc Cap or all Stainless fastener

## PERFORMANCE DATA

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Steel Gauge				
	26	24	22	20	18
9	171	252	329	401	634
10	151	238	291	359	478
12	199	271	360	462	656

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
9 - 15	1800	1200	50
10 - 14	1927	1400	71
12 - 14	2778	2000	92

PULLOUT VALUES IN WOOD (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Embedment in 2" x 4"				
	½"	¾"	1"	1¼"	1½"
9	198	328	571	728	872
10	256	710	753	1121	1358
12	273	801	863	1206	1465

PULL OVER (AVERAGE LBS. ULTIMATE)						
Fastener		Steel Gauge				
Dia.		26	24	22	20	18
9	Washed	515	674	875	1100	1627
10	Washed	537	682	922	1191	1688
12	Washed	587	744	983	1216	1734

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Long Life Super Woody®. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Items in stock may vary by location.



# SMALL DIAMETER R<sub>x</sub> DRILLERS®

## ▶ APPLICATIONS

- HVAC, electrical and accessories to steel framing.
- Commercial and residential steel framing.
- Hat channel to stud.
- Track to studs.
- Masonry brick ties to steel framing.
- Lap applications on roof deck & sidelaps on wall panels.

## ▶ PRODUCT FEATURES

- Special point design eliminates walking for fast material engagement.
- Maximizes pullout and minimizes back out with special point to thread design.
- Unique drill tip to thread design extrudes the metal preventing strip out.
- Multiple head styles for many applications.
- Convex drill point has precision cutting edges to improve drilling with less effect.



## PERFORMANCE DATA

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)									
Fastener Dia.	Steel Gauge								
	Pt.	26	24	22	20	18	16	14	12
#8 #10 - 16	2	119	193	265	298	491	703	959	--
	1	148	241	311	357	565	826	1111	1796
	3	124	208	266	299	499	708	967	1474

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
8 - 18	1545	1000	42
10 - 16	1936	1400	61
10 - 24	2702	1500	65

SHEAR VALUES (AVERAGE LBS. ULTIMATE)								
Fastener Dia.	Steel Gauge (lapped)							
	Pt.	26	24	22	20	18	16	14
#8 #10	2	294	496	560	740	1060	--	--
	1	398	584	659	884	1374	--	--
	3	--	455	526	728	1266	1540	1552

SHEET STEEL GAUGES								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

# SMALL DIAMETER R<sub>x</sub> DRILLERS®

## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Rx Drillers. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

## SELECTOR GUIDE

Description	Drill Point	Drill and Tap Capacity	Hex Washer	Phillips Pan	Phillips Wafer	Phillips Flats	Phillips Oval	Phillips Mod Truss
8-18 x ½"	2	.035 - .110	✓	✓		✓		✓
8-18 x ⅝"	2	.035 - .110	✓	✓				
8-18 x ¾"	2	.035 - .110	✓	✓		✓		✓
8-18 x 1"	2	.035 - .110	✓	✓		✓	✓	✓
8-18 x 1¼"	2	.035 - .110	✓	✓		✓	✓	✓
8-18 x 1½"	2	.035 - .110	✓	✓		✓	✓	✓
8-18 x 2"	2	.035 - .110	✓	✓		✓	✓	✓
10-16 x ½"	2	.035 - .110	✓	✓				
10-16 x ⅝"	2	.035 - .110	✓	✓				
10-16 x ¾"	3	.035 - .176	✓	✓		✓		
10-24 x ¾"	3	.035 - .176			✓			
10-16 x 1"	3	.035 - .176	✓	✓		✓		
10-24 x 1"	3	.035 - .176			✓			
10-16 x 1¼"	3	.035 - .176	✓	✓		✓		
10-24 x 1¼"	3	.035 - .176	✓	✓	✓			
10-16 x 1½"	3	.035 - .176	✓	✓		✓		
10-24 x 1½"	3	.035 - .176			✓			
10-16 x 2"	3	.035 - .176	✓	✓		✓		
10-24 x 2"	3	.035 - .176	✓		✓			
10-16 x 2½"	3	.035 - .176	✓	✓				
10-16 x 3"	3	.035 - .176	✓	✓				

Items in stock may vary by location.

# CLIP SCREWS

Low Profile Architectural Metal Roof Clip Fasteners

## ▶ APPLICATIONS

- Attaches clip or panel to steel purlin.
- Attaches clip or panel to wood structure.

## ▶ PRODUCT FEATURES

- #12 diameter fasteners utilize phillips square, combo drive for hands free installation.
- #10 diameter uses the phillips or square drive to improve fastener stability & fit.
- Special drill point has precision cutting edges to improve drilling performance with less effort.
- Low profile ensures proper clearance between clip and profile.



## SELECTOR GUIDE

Description	Head Style	Drill Point	Drill and Tap Capacity	Material Attachment Range
10-16 x 1"	#2 Phillips Pancake	#3	.036 - .175	.550
10-16 x 1½"	#2 Phillips Pancake	#3	.036 - .175	.750
12-14 x 1"	#2 PSD Pancake	#3	.036 - .210	.550
¼-14 x 1¼"	HWH	#3	.036 - .210	.617
10-12 x 1"	#2 Phillips Pancake	Type A	.012 - .048	.250
10-12 x 1½"	#2 Phillips Pancake	Type A	.012 - .048	.750
10-1 x 1"	#2 PSD Pancake	Type A	.012 - .048	.250

## PERFORMANCE DATA

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)										
Fastener Dia.	Steel Gauge									
	Pt.	26	24	22	20	18	16	14	12	
#10	3	109	180	218	278	427	583	873	1406	
#12	3	139	194	250	369	450	598	915	1500	
#10	Type A	192	280	360	460	568	--	--	--	
#12	Type A	193	300	387	464	621	--	--	--	
¼	3	141	231	293	346	613	880	1145	1858	

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

# CLIP SCREWS

Low Profile Architectural Metal Roof Clip Fasteners

## PERFORMANCE DATA (continued)

FASTENER VALUES				
Fastener (dia. - tpi)	Point	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
10 - 16	3	1983	1400	78
12 - 14	3	2652	2000	92
10 - 12	Type A	2581	1426	81
12 - 11	Type A	3634	1994	132
¼	3	4060	2600	150

SHEET STEEL GAUGES								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"

SHEAR VALUES (AVERAGE LBS. ULTIMATE)					
Fastener Dia.	Steel Gauge (lapped)				
	Pt.	20 gauge	18 gauge	16 gauge	14 gauge
#10	3	727	1164	1366	1460
#12	3	923	1279	1657	1933
¼	3	930	1442	2100	2584

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)						
Fastener		Wood Type & Thickness				
Dia.	Pt.	½ Plywood	⅝ Plywood	¾ Plywood	Yellow Pine	¾ OSB
#10	Type A	364	382	400	579	288
#12	Type A	377	377	427	675	326

## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Clip Screws. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- The fastener is fully seated when the head is flush with the work surface.
- Over driving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.

Items in stock may vary by location.

# R<sub>x</sub> DRILLERS®

## ▶ APPLICATIONS

- Mansard panel to structure.
- Wall panels to girt.
- Roof panels to purlin or joist.
- Steel roofing & sheeting to metal frame structure.

## ▶ PRODUCT FEATURES

- High tensile steel with vulcanized EPDM rubber bonded washer eliminates ozone breakdown and washer leaks.
- Dual seal washer design helps prevent leaks.
- Specialized point design to improve drilling performance with less effort.
- Long point design maximizes pullout performance and allows for extra drilling capacity.



## SELECTOR GUIDE

Description	Drill Point	Drill and Tap Capacity
12-14 x ¾"	3	.110 - .210
12-14 x 1"	3	.110 - .210
12-14 x 1¼"	3	.110 - .210
12-14 x 1½"	3	.110 - .210
12-14 x 2"	3	.110 - .210
12-14 x 2½"	3	.110 - .210
12-14 x 3"	3	.110 - .210
12-14 x 4"	3	.110 - .210
14-14 x ¾"	3	.110 - .230
14-14 x 1"	3	.110 - .230
14-14 x 1¼"	3	.110 - .230
14-14 x 1½"	3	.110 - .230
14-14 x 1¾"	3	.110 - .230
14-14 x 2"	3	.110 - .230
14-14 x 2½"	3	.110 - .230
14-14 x 3"	3	.110 - .230
14-14 x 4"	3	.110 - .230
14-14 x 4½"	3	.110 - .230
14-14 x 5"	3	.110 - .230
14-14 x 6"	3	.110 - .230
14-14 x ⅞ #12 HD	1	.90 MAX



# R<sub>x</sub> DRILLERS<sup>®</sup>

## PERFORMANCE DATA

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
12 - 14	2778	2000	92
¼ - 28	4060	2600	150

SHEET STEEL GAUGES								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"

SHEAR VALUES (AVERAGE LBS. ULTIMATE)											
Fastener Dia.	Steel Gauge (lapped)										
	Pt.	26	24	22	20	18	16	14	12	⅝	¼
12	3	--	--	--	769	1358	1620	1970	1986	--	--
¼	1	511	849	885	1244	1764	--	--	--	--	--
	5	--	--	--	930	1442	2100	2584	2650	--	--

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)											
Fastener Dia.	Steel Gauge										
	Pt.	26	24	22	20	18	16	14	12	⅜	¼
12	3	142	211	289	341	551	757	1063	1631	2998	
12	4	--	--	--	--	--	--	--	1532	3485	3844
	5	--	--	--	--	--	--	--	1527	3701	3999
¼	1	208	329	428	562	800	1151	--	--	--	--
	3	141	231	293	346	613	880	1145	1877	4550	--

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Rx Driller<sup>®</sup>. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range if 0 - 2500.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- Adjust the screwgun nosepiece to properly seat the fastener.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Items in stock may vary by location.



# R<sub>x</sub> HEAVY DUTY DRILLERS®

## ▶ APPLICATIONS

- Clips to structural steel or bar joist
- Panels to bar joist or structural steel.
- Longer lengths for retrofit applications into bar joist or structural steel.
- Metal decking to structural steel or bar joist.

## ▶ PRODUCT FEATURES

- Engineered for faster drilling and tapping with less effort.
- Specially designed point will drill and tap in steel up ½”.
- Longer lengths can attach up to 7” of material in structural steel or bar joist.



## SELECTOR GUIDE

Description	Head Style	Drill Point	Drill and Tap Capacity	Max. Material Attachment
12-24 x 7/8"	HWH	#4	.125 - .250	.325
12-24 x 1"	HWH	#4.5	.125 - .375	.575
12-24 x 1 1/4"	HWH	#5	.125 - .500	.375
12-24 x 1 1/2"	HWH	#5	.125 - .500	.625
12-24 x 2"	HWH	#5	.125 - .500	1.125
1/4-28 x 3"	HWH	#5	.125 - .500	2.150
1/4-28 x 4"	HWH	#5	.125 - .500	3.150
1/4-28 x 5"	HWH	#5	.125 - .500	4.150
1/4-28 x 6"	HWH	#5	.125 - .500	5.150
1/4-28 x 8"	HWH	#5	.125 - .500	7.150

# R<sub>x</sub> HEAVY DUTY DRILLERS<sup>®</sup>

## PERFORMANCE DATA

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)						
Fastener Dia.	Steel Gauge (lapped)					
	Pt.	16	14	12	3/16	1/4
12	4	--	--	1532	3485	3844
	4.5	--	--	1508	3865	4101
	5	--	--	1527	3701	3999
4	5	--	--	1507	3300	5059

SHEAR VALUES (AVERAGE LBS. ULTIMATE)						
Fastener Dia.	Steel Gauge (lapped)					
	Pt.	16	14	12	1/8	1/4
12	4	--	--	2048	2030	--
	4.5	--	--	2641	2887	2897
	5	--	--	2650	2700	2762
1/4	5	1597	2005	2350	2792	3310

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
12 - 24 T/4	3020	2100	100
12 - 24 T/4.5	3020	2100	100
12 - 24 T/5	3020	2100	100
1/4 - 28 T/5	5577	3310	234

SHEET STEEL GAUGES								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"

**Note:** Rx Drillers are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application. Appropriate safety factors should be applied to these values for design purposes.

## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Rx Driller<sup>®</sup>. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range if 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Items in stock may vary by location.

# R<sub>x</sub> DRILLERS® LONG LIFE

Zinc Capped Head or Stainless Capped Head

## ▶ APPLICATIONS

- For lap applications on roof and walls.
- Attaches panel over insulation to girt or purlin in roof and wall applications.
- For standing seam roof endlaps.
- #17 diameter replacement screws for #12 and ¼ diameter fasteners.

## ▶ PRODUCT FEATURES

- Zinc or stainless capped head eliminates rusting problems on exposed part of fastener.
- Integral designed head controls EPDM washer for improved appearance & longer life.
- Specialized point design to improve drilling performance with less effort.
- Approved for use on galvanized roof panels.
- Provides maximum corrosion & sealing protection.
- Long point design maximizes pullout performance and allows for extra drilling capacity.



## SELECTOR GUIDE

Description	Head Style	Drill Point	Drill and Tap Capacity	Max. Material Attachment	Applications
12-14 x 1"	HWH	#3	.036 - .210	.310	• Panel over blanket insulation to steel frame. • Roof curb to structural steel.
12-14 x 1¼"	HWH	#3	.036 - .210	.560	
12-14 x 1½"	HWH	#3	.036 - .210	.790	
12-24 x 2"	HWH	#5	.125 - .500	1.000	• Standing seam roof system endlaps. • Stitch roof and wall sidelaps, SSR endlaps.
¼-14 x 7/8"	HWH	#1	.018 - .095	.320	
¼-14 x 1½"	HWH	#1	.018 - .095	.395	• Replacement screw for #12 and ¼ diameter fasteners.
¼-14 x 1¼"	HWH	#3	.036 - .210	.630	
¼-14 x ¾"	HWH	#AB	.012 - .048	.435	
17-14 x 1"	HWH	#AB	--	.686	

# Rx DRILLERS® LONG LIFE

Zinc Capped Head or Stainless Capped Head

## PERFORMANCE DATA

FASTENER VALUES			
Fastener (dia. - tpi)	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
12 - 14	2778	2000	92
12 - 24	3188	2100	100
¼ - 14	4060	2600	150
¼ - 28	5577	3310	234
17 - 14	5300	3200	180

SHEET STEEL GAUGES								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"

PULLOUT VALUES (AVERAGE LBS. ULTIMATE)											
Fastener Dia.	Steel Gauge										
	Pt.	26	24	22	20	18	16	14	12	⅜	¼
12	3	156	243	283	375	605	848	1181	1856	3520	--
12	5	--	--	--	--	--	--	--	1527	3701	3999
¼	5	--	--	--	--	--	--	--	1507	3300	5059
¼	1	208	329	428	562	800	1151	--	--	--	--
17	AB	235	365	496	597	702	926	1180	1690	3446	4212
	AB	225	261	350	442	553	752	1122	1716	3523	4250

SHEAR VALUES (AVERAGE LBS. ULTIMATE)											
Fastener Dia.	Steel Gauge										
	Pt.	26	24	22	20	18	16	14	⅜	⅜	¼
12	2	365	600	623	898	1370	1758	2138	2202	--	--
12	5	--	--	--	--	--	--	--	2700	2720	2762
¼	5	--	--	--	--	--	1597	2005	2350	2792	3310
¼	1	511	849	885	1244	1764	--	--	--	--	--
17	AB	422	482	669	889	1157	--	--	--	--	--
	AB	459	745	989	958	1415	--	--	--	--	--

The values listed are ultimate averages achieved under laboratory conditions and apply to these fasteners only. Appropriate safety factors should be applied to these values for design purposes.

# R<sub>x</sub> DRILLERS® LONG LIFE

Zinc Capped Head or Stainless Capped Head

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## ▶ INSTALLATION GUIDELINES

- A standard screwgun with a depth sensitive nosepiece should be used to install Rx Driller®. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have an RPM range of 0 - 2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Items in stock may vary by location.



# 304 SS & CARBON STEEL TAPPERS

Self tapping fasteners

## ▶ APPLICATIONS

- Clips to structural or bar joist.
- Longer length fasteners can be used in retrofit & sheet applications.
- Liner panels to structural steel or bar joist.

## ▶ PRODUCT FEATURES

- 304 Stainless Steel for added corrosion protection.
- Engineered for fast and smooth tapping with less effort.
- Vulcanized bonding of washer eliminates separation.

## ▶ PRODUCT SPECIFICATIONS

Material..... 304 Stainless steel or Carbon Steel  
 Diameter..... #14-10 Type A      #14-14 Type AB B  
 Thread Form..... 14-10  
 Head Style..... ¾ AF HWH  
 Point..... Type A AB B  
 Finish..... Electro Zinc



Type A: For light gauge applications  
 Type AB: For light to medium gauge applications  
 Type B: For heavy gauge applications

## SELECTOR GUIDE

Carbon Steel	304 Series	Description
✓	✓	14 x ¾" HWH A - AB - B
✓	✓	14 x 1" HWH A - AB - B
✓	✓	14 x 1½" HWH A - AB - B
✓	✓	14 x 2" HWH A - B
✓	✓	14 x 2½" HWH A - AB - B
✓	✓	14 x 3" HWH A - B
✓	✓	14 x 4" HWH A - B
✓	✓	14 x 5" HWH A - B
✓	✓	14 x 6" HWH A - B
✓	✓	17 x ¾" HWH AB
✓	✓	17 x 1" HWH AB
✓	✓	17 x 1½" HWH AB



# 304 SS & CARBON STEEL TAPPERS

Self tapping fasteners

## PERFORMANCE DATA

PULLOVER	GAUGE				
	18	20	22	24	26
Size					
#14 - 10	2,350	1,750	1,375	950	650
#17 - 14	2,250	1,650	1,225	850	550

FASTENER STRENGTH			
Fastener Diameter	Min. Tensile	Min. Torque	Min. Shear
#14 - 10	3,150 lbs.	125 in lbs.	2,500 lbs.
#17 - 14	3,850 lbs.	150 in lbs.	2,600 lbs.

## ▶ INSTALLATION GUIDELINES

STRUCTURAL FASTENERS	FRAMING MEMBER	DRILL BIT SIZE
#14 Dia. Type B & AB	14 up to 10 ga.	#8
	10 ga. up to 3/16"	#4
	3/16" up to 1/2"	#1
	1/2" & heavier	0.231
#14 Dia. Type A	16 gauge	#10
	14 gauge	#8
Type 17 AB	16 up to 14 ga. 12 gauge	#1

Items in stock may vary by location.

# POP RIVETS

## ▶ APPLICATIONS

- Attaches multiple pieces.
- For metal to structure applications.
- For gutters, down spout, and trim.

## ▶ PRODUCT FEATURES

- Available in steel, aluminum, stainless steel and copper rivet.
- Mandrels available in steel, aluminum, stainless steel and brass.



## BUTTONHEAD RIVETS

Diameter Inches	Drill No. Hole Size Inches	Grip Range	Plated Steel Rivet Coated Steel Mandrel IFI Grade 30	Aluminum Rivet Coated Steel Mandrel IFI Grade 18	Aluminum Rivet Aluminum Mandrel IFI Grade 11	Stainless Rivet Stainless Steel Mandrel IFI Grade 51	Stainless Rivet Coated Steel Mandrel IFI Grade 50	
1/8" (.125)	#30 .129 - .133	.032 - .125	SB4-1	AB4-1	AB4-1A			
		.063 - .125	SB4-2	AB4-2	AB4-2A	SSB4-2S	SSB4-2	
		.126 - .187	SB4-3	AB4-3	AB4-3A	SSB4-3S	SSB4-3	
		.188 - .250	SB4-4	AB4-4	AB4-4A	SSB4-4S	SSB4-4	
		.251 - .312	SB4-5	AB4-5	AB4-5A			
		.313 - .375	SB4-6	AB4-6	AB4-6A	SSB4-6S	SSB4-6	
		.376 - .500	SB4-8	AB4-8	AB4-8A	SSB4-8S	SSB4-8	
		5/8" (.156)	#20 .160 - .164	.062 - .125	SB5-2	AB5-2	AB5-2A	SSB5-2S
.126 - .187	SB5-3			AB5-3	AB5-3A			
.188 - .250	SB5-4			AB5-4	AB5-4A	SSB5-4S	SSB5-4	
.251 - .375	SB5-6			AB5-6	AB5-6A	SSB5-6S	SSB5-6	
.376 - .500	SB5-8			AB5-8	AB5-8A			

continued on next page

# POP RIVETS

## ▶ ADDITIONAL INFORMATION

- Other sizes, head types and sizes available upon request

## BUTTONHEAD RIVETS

Diameter Inches	Drill No. Hole Size Inches	Grip Range	Plated Steel Rivet Coated Steel Mandrel IFI Grade 30	Aluminum Rivet Coated Steel Mandrel IFI Grade 18	Aluminum Rivet Aluminum Mandrel IFI Grade 11	Stainless Rivet Stainless Steel Mandrel IFI Grade 51	Stainless Rivet Coated Steel Mandrel IFI Grade 50
3/16" (.187)	#11 .192 - .196	.062 - .125	SB6-2	AB6-2	AB6-2A	SSB6-2S	SSB6-2
		.126 - .250	SB6-4	AB6-4	AB6-4A	SSB6-4S	SSB6-4
		.251 - .375	SB6-6	AB6-6	AB6-6A	SSB6-6S	SSB6-6
		.501 - .625	SB6-8	AB6-8	AB6-8A	SSB6-8S	SSB6-8
		.626 - .750	SB6-10	AB6-10	AB6-10	SSB6-10S	SSB6-10
		.751 - 1.00	SB6-12	AB6-12	AB6-12	SSB6-12S	SSB6-12
			SB6-16	AB6-16	AB6-16		
1/4" (.250)	F .257 - .261	.062 - .250	SB8-4	AB8-4	AB8-4A		
		.251 - .375	SB8-6	AB8-6	AB8-6A		
		.376 - .500	SB8-8	AB8-8	AB8-8A		
		.501 - .750	SB8-12	AB8-12	AB8-12A		

Items in stock may vary by location.

# CLOSURE STRIP

## ▶ APPLICATIONS

- Seal roof and wall panel at the end.
- Seal trim, roof curbs and flashing.

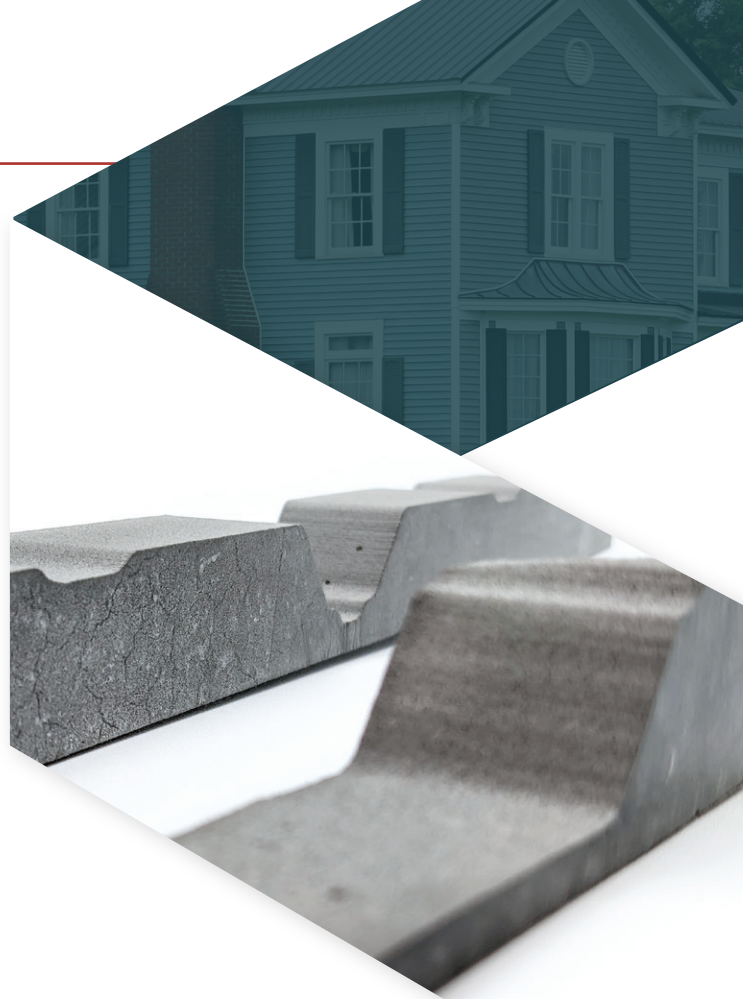
## ▶ PRODUCT FEATURES

- Low Rib, R Panel, and Apex profiles available.
- Interlocking dovetailed ends. Eliminates gaps to ensure a snug end to end fit.
- Available ¼” bead of adhesive that bonds in extreme cold or wet surfaces.
- Best UV resistance in the market.

Items in stock may vary by location.

### AVAILABLE CLOSURES

Panel Type	Outer Closures	Inner Closures
Low Rib	✓	✓
R Panel	✓	✓
Apex Panel	✓	✓
Snap Lock	N/A	N/A



## VENTED CLOSURE

### ▶ PROFILE AVAILABLE

Low Rib	25 pieces per box
R-Panel	25 pieces per box

- Closure strip with adhesive and built in venting material
- Use to properly vent metal roofs.



## ROLL VENT CLOSURE

### ▶ PACKAGED IN 2-10' ROLL PER BOX

- Forms to all roof panels.
- Adhesive applied for ease of installation.
- Easy to use roll material.

Items in stock may vary by location.

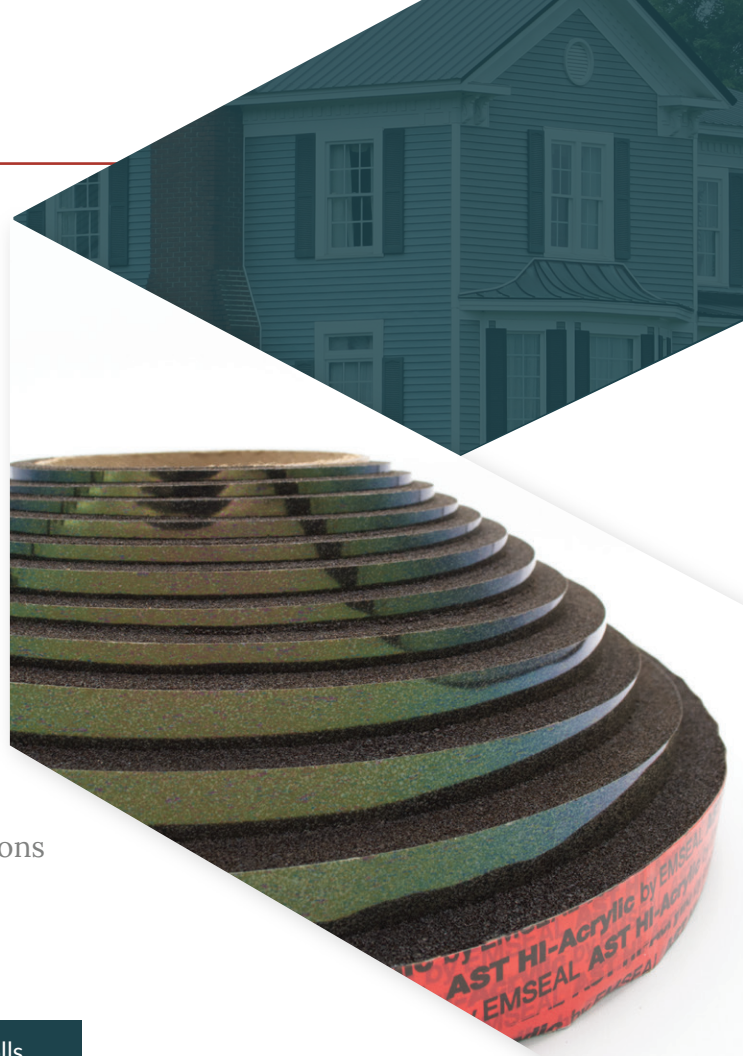
## EM-SEAL

### ▶ APPLICATIONS

- Use to seal valleys, hips and ridges.
- Non standard joints and seam.
- Seals around doors and windows.

### ▶ PRODUCT FEATURES

- Easy to use self-adhering acrylic-modified asphalt emulsion form tape.
- Will not dry out and become brittle.
- UV Stable.
- Seal remains intact even with thermal expansions and contraction of building panels.



### SIZES AVAILABLE

Supplied Size	Expanded Size	Box Quantity	Rolls Per Box	Rolls Length
¼" x 1"	1" x 1"	511.68 LF	26	19.68'
5/16" x 1"	1¼" x ¾"	419.84 LF	32	13.12'
3/8" x 1¼"	1½" x 1¼"	262.40 LF	20	13.12'

Items in stock may vary by location.



## UNIVERSAL CLOSURE

### ▶ APPLICATIONS

- Seals under ridge caps and trim.
- Fills voids and other openings between metal panels.

### ▶ PRODUCT FEATURES

- Available with or without adhesive.
- Made from long lasting Polyurethane foam.
- Material is a semi closed cell for greater flexibility.

### SIZES AVAILABLE

Thickness x Width	Length of Rolls
¾" x 1"	50 FT Rolls
1" x 1"	50 FT Rolls
1" x 1½"	50 FT Rolls
1½" x 1½"	50 FT Rolls
1½" x 2"	50 FT Rolls
2" x 2"	50 FT Rolls

Items in stock may vary by location.



# PIPE BOOT FLASHINGS

## ▶ APPLICATIONS

- Seal roof penetrations:  
Plumbing, AC, Electrical, Heat and Exhaust.

## ▶ PRODUCT FEATURES

- Gray EPDM Rubber/Red Silicone.
- Flexible flange conforms to panel profile.
- Flexible cone adjusts to roof pitch.
- High resistance to ozone and ultra-violet light.
- Pipe diameter markings for easy sizing.
- For pipes ¼" - 18"
- -65°F to 250°F EPMD.
- -40°F to 350°F Silicone.



## SELECTOR GUIDE

### PIPE BOOT FLASHING

Description	Pipe Outside Diameter	Base Diameter	Height	Box Qty.
Mini	¼" - 1½"	3½"	1¾"	20
#1 EPDM or Silicone	¼" - 2"	4¾"	3"	10
#2 EPDM or Silicone	1¾" - 3¼"	6¼"	4"	10
#3 EPDM or Silicone	¼" - 5"	7¾"	4"	10
#4 EPDM or Silicone	3" x 6"	9¼"	5"	10
#5 EPDM or Silicone	4" x 7"	10¾"	5"	5
#6 EPDM or Silicone	5" x 9"	12½"	6"	5
#7 EPDM or Silicone	6" x 11"	14½"	6"	5
#8 EPDM or Silicone	7" x 13"	16½"	6"	5
#9 EPDM or Silicone	10" x 18"	25¾"	8"	2
Diverter	16" x 24"	39½" x 35"		1

# PIPE BOOT FLASHINGS

## SELECTOR GUIDE (continued)

### RETROFIT BOOT FLASHING

Description	Pipe Outside Diameter	Base Diameter	Height	Box Qty.
801	3/4" - 2 3/4"	6 3/10"	3 1/2"	10
802	2" - 7 1/4"	10 3/4"	5 3/5"	5
803	3 1/4" - 10"	14 1/2"	5 4/5"	5

## PERFORMANCE DATA

ASTM Test Method	Test Description	Specification	Test Results
D412	Tensile Strength (min. psi ratings)	1450 psi min.1	537 psi
D412	Ultimate Elongation (%)	350 min.	535
D1171	Resistance to Ozone-min. rating	100 (no cracks)	Passed
D673	Heat Aging - 70 hrs. at 212°F		
	• Change in Hardness (points)	±15 max.	+8
	• Change in Tensile Strength (%)	±30 max.	-4.7
	• Change in Elongation (%)	±50 max.	-26

ASTM Test Method	Test Description	Specification	Test Results
D2137	Low Temperature Brittleness 3 min. at -40°F	Non-brittle	Passed
D624	Tear Resistance Die C (min.) per inch of width min.	125 pounds per inch of width	130 pounds
U.L. 94	Flame Resistance	U.L. 94 H.B.	Passed

Items in stock may vary by location.