

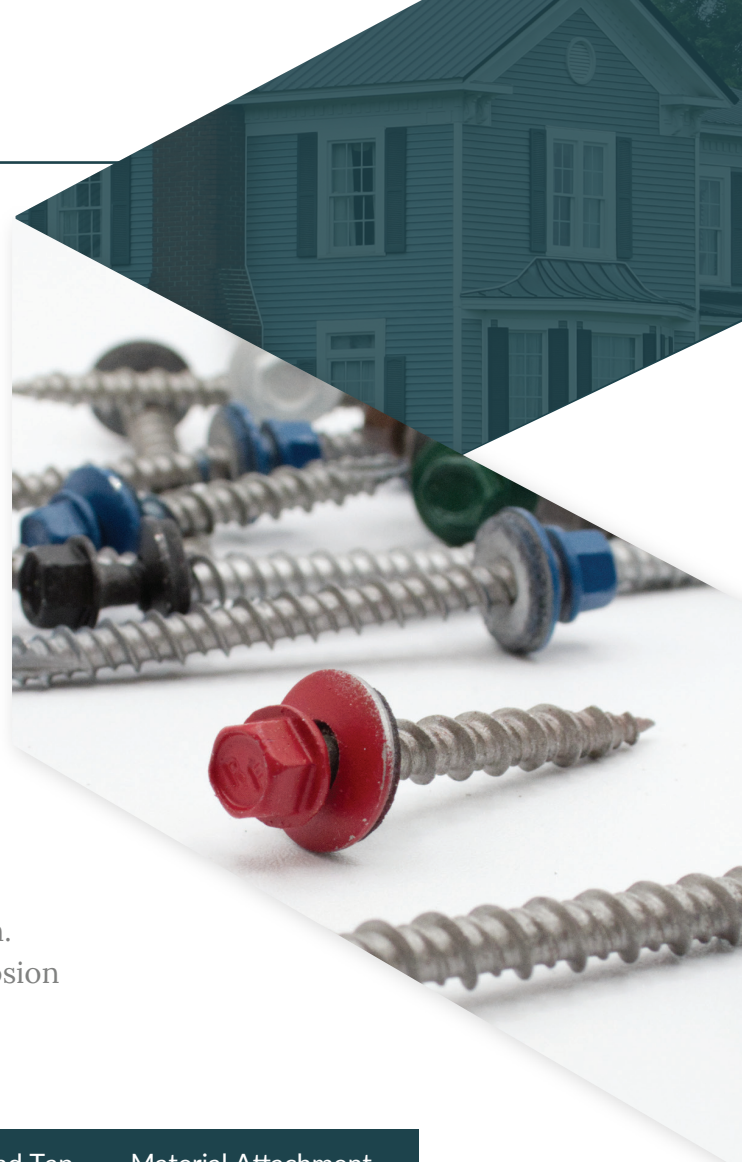
WOODY®

▶ 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_x 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 | 2 | 119 | 193 | 265 | 298 | 491 | 703 | 959 | -- |
| #10 - 16 | 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 | 2 | 294 | 496 | 560 | 740 | 1060 | -- | -- | |
| #10 | 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_x 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_x 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_x DRILLERS®

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®. 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_x 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_x HEAVY DUTY DRILLERS®

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®. For optimal fastener performance, the screwgun should be a minimum of 6 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.
- 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_x 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_x DRILLERS® LONG LIFE

Zinc Capped Head or Stainless Capped Head

▶ 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 | | | | |
|----------|-------|-------|-------|-----|-----|
| | Size | 18 | 20 | 22 | 24 |
| #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 $\frac{3}{16}$ " | #4 |
| | $\frac{3}{16}$ " up to $\frac{1}{2}$ " | #1 |
| | $\frac{1}{2}$ " & 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.

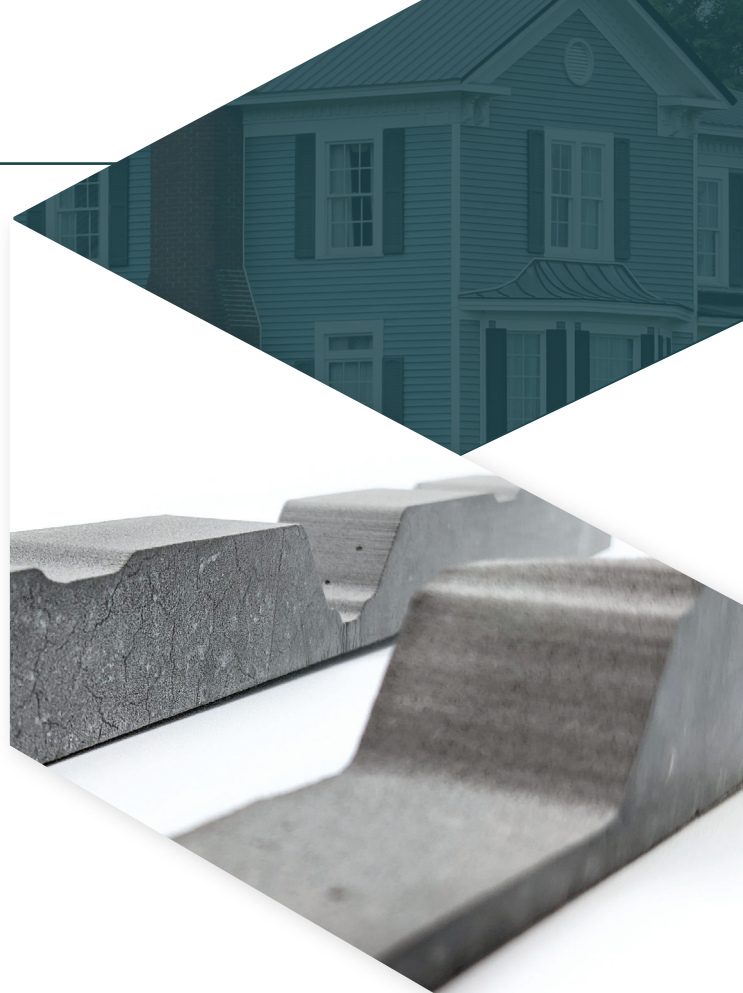
CLOSURE STRIP

▶ 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.

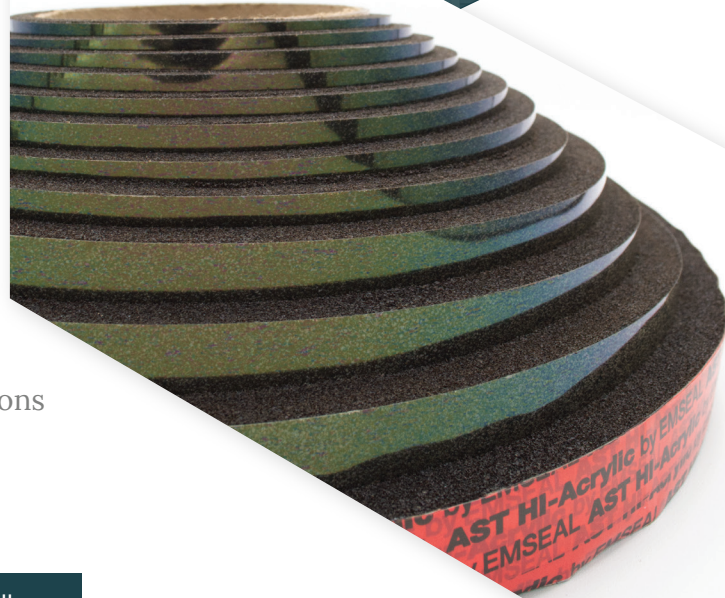
EM-SEAL

▶ 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 |
|---------------|-----------------|--------------|---------------|--------------|
| 1/4" x 1" | 1" x 1" | 511.68 LF | 26 | 19.68' |
| 5/16" x 1" | 1 1/4" x 3/4" | 419.84 LF | 32 | 13.12' |
| 3/8" x 1 1/4" | 1 1/2" x 1 1/4" | 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.