

GUARDIAN

FALL PROTECTION



Product Name: SSMR G-Rail Base

Part #: 15219

Instruction Manual

Do not throw away these instructions!

Read and understand these instructions before using equipment!

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Introduction

Thank you for purchasing a Guardian Fall Protection SSMR G-Rail Base. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This and any other included instructions must be made available to the user of the equipment. The user must understand how to safely and effectively use the SSMR G-Rail Base, and all fall safety equipment used in combination with the SSMR G-Rail Base.

| User Information | |
|--------------------|-------|
| Date of First Use: | _____ |
| Serial #: | _____ |
| Trainer: | _____ |
| User: | _____ |

Applicable Safety Standards

When used according to instruction specifications, this product meets or exceeds all applicable OSHA 1926 Subpart M and OSHA 1910 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Consult regulatory agencies for more information on fall protection systems and associated components.

Worker Classifications



Understand the following definitions of those who work near or who may be exposed to fall hazards.

Qualified Person: A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems.

Competent Person: A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and implementation. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.

Authorized Person: A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

It is the responsibility of a Qualified or Competent person to supervise the job site and ensure all applicable safety regulations are complied with.

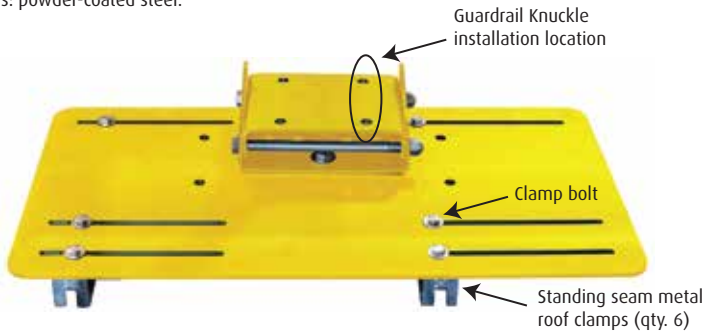
Product Specific Applications



Fall Prevention: SSMR G-Rail Bases may be used as a component in Fall Prevention applications ONLY. Fall Prevention Systems are placed around the leading edges of any and all fall hazards to prevent a worker from going over an edge, and may be used in substitute of Fall Protection or safety netting systems. Installation requirements for SSMR G-Rail Bases set forth in this manual MUST be adhered to. Personal Fall Arrest, Work Positioning, Climbing, Rescue, and any other systems must NEVER be connected to Fall Prevention Systems.

Components and Specifications

Materials: powder-coated steel.



Installation and Use

Prior to installation, plan your system:

Always ensure that complete G-Rail System, of which SSMR G-Rail Base is a component, is fully compliant with all applicable OSHA regulations. Always adhere to all instructions provided with equipment. G-Rail equipment instructions provided separately.

1. Ensure SSMR G-Rail Base is compatible with applicable standing seam roof (see pgs. 5-7). If standing seam roof is not listed, do not install SSMR G-Rail Base.
2. Ensure compatible seam attachment points exist between 9.5" to 25" apart.
3. Maximum substrate slope is 4/12. This supersedes the 1/12 maximum slope for the G-Rail, which applies to freestanding systems only.

Assembly and use:

1. Adjust SSMR clamps to fit applicable roof seam spacing. To adjust, loosen clamp bolt, slide clamp to proper position, and tighten bolt until snug. Repeat for all necessary clamps.
2. Install Guardrail Knuckles (part # 15186) onto SSMR G-Rail Base in accordance with Guardrail Knuckle instructions.

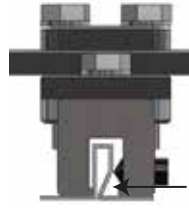
3. Install SSMR G-Rail Base onto roof. Place all clamps over roof seams, then insert (2) provided set screws in bottom holes of each clamp.

- All set screws must face same direction. Ensure all set screws will compress against roof seam when fully installed.

- Use 3/16" Allen wrench attachment with compatible 1/4" drive screw gun to install set screws.

- If roof is 22 gauge or thicker, torque all set screws to between 13.33-15 foot-pounds. If roof is thinner than 22 gauge, torque all set screws to between 10.83-12.5 foot-pounds.

4. Install all G-Rails into Guardrail Knuckles.



On each clamp, (2) set screws must compress against roof seam



WARNING NEVER over-torque set-screws; doing so could strip hardware or damage roof panels.

Maintenance, Cleaning, and Storage

If SSMR G-Rail Base fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair.

Cleaning after use is important for maintaining the safety and longevity of SSMR G-Rail Base. Remove all dirt, corrosives, and contaminants from SSMR G-Rail Base before and after each use. If SSMR G-Rail Base cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean SSMR G-Rail Base with corrosive substances.

When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

Inspection

Prior to EACH use, inspect SSMR G-Rail Base for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, and missing or illegible labels. IMMEDIATELY remove SSMR G-Rail Base from service if defects or damage are found. Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials.

At least every 12 months, a Competent Person other than the user must inspect SSMR G-Rail Base. **Competent Person inspections MUST be recorded in inspection log in instruction manual. The Competent Person must sign their initials in the box corresponding to the month and year the inspection took place.**

During inspection, consider all applications and hazards SSMR G-Rail Base has been subjected to.

Inspection Log

Date of First Use: _____.

Product lifetime is indefinite, as long as it passes pre-use and Competent Person inspections. User must inspect prior to EACH use. Competent Person other than user must complete formal inspection at least every 12 months. Competent Person to inspect and initial.

| | J | F | M | A | M | J | J | A | S | O | N | D |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| YR | | | | | | | | | | | | |
| YR | | | | | | | | | | | | |
| YR | | | | | | | | | | | | |
| YR | | | | | | | | | | | | |
| YR | | | | | | | | | | | | |

This inspection log must be specific to one SSMR G-Rail Base. Separate inspection logs must be used for each SSMR G-Rail Base. All inspection records must be made visible and available to all users at all times.

If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.

Labels

GUARDIAN
FALL PROTECTION

SSMR G-Rail Base

Part #: 15219

DOM: ██████████

Serial #: ██████████

90924 (Rev. A)

Compatible Standing Seam Metal Roofs

| SSMR Manufacturer | SSMR Name | SSMR Thickness | SSMR Manufacturer | SSMR Name | SSMR Thickness |
|---------------------------------------|-----------------------------|----------------|------------------------------------|-----------------------------|----------------|
| A&S | Double-Lok | 22 gauge steel | Bryer Company | TBC-Ultra | 22 gauge steel |
| A&S | DuraSeal Seam | 22 gauge steel | Bryer Company | TBC-Ultra | 24 gauge steel |
| A&S | DuraSeal Snap | 22 gauge steel | Bryer Company | TBC-Superseam (Single Fold) | 22 gauge steel |
| A&S | Ultra Dek | 22 gauge steel | Bryer Company | TBC-Superseam (Double Fold) | 22 gauge steel |
| A&S | DuraSeal Snap | 24 gauge steel | Butler | TBC-Superseam (Single Fold) | 24 gauge steel |
| A&S | Ultra Dek | 24 gauge steel | Butler | MR24 | 24 gauge steel |
| A&S | Double-Lok | 24 gauge steel | Butler | VSR | 24 gauge steel |
| A&S | DuraSeal Seam | 24 gauge steel | Butler | MR24 | 22 gauge steel |
| AB Martin Roofing | AB Seam 19.5 | 24 gauge steel | Carlisle Engineered Metals, Inc. | Architectural Panel | 22 gauge steel |
| AEF Span | Snap Seam | 22 gauge steel | Carlisle Engineered Metals, Inc. | Architectural Panel | 24 gauge steel |
| AEF Span | Snap Seam | 22 gauge steel | Carlisle Engineered Metals, Inc. | VersaLok Panel | 22 gauge steel |
| AEF Span | Span Seam (DBF) | 22 gauge steel | Carlisle Engineered Metals, Inc. | VersaLok Panel | 24 gauge steel |
| AEF Span | Multilok (Quad Lok) | 24 gauge steel | CBC Steel Buildings | SS 24 | 24 gauge steel |
| AEF Span | Span Seam (DBF) | 24 gauge steel | Ceco | CXP | 22 gauge steel |
| AEF Span | Span Lok HP 2" SF | 22 gauge steel | Ceco | CRP | 24 gauge steel |
| AEF Span | Design Span hp | 22 gauge steel | Ceco | CYP | 24 gauge steel |
| All Weather Insulated Panels (AWIP) | 58 Series (Single Fold) | 24 gauge steel | Central States Manufacturing | Central Seam Plus | 22 gauge steel |
| American Buildings Company | Loc Seam 360 | 22 gauge steel | Central States Manufacturing | Central Loc | 22 gauge steel |
| American Buildings Company | Standing Seam 360 | 22 gauge steel | Central States Manufacturing | Central Loc | 24 gauge steel |
| American Buildings Company | Loc Seam 360 | 22 gauge steel | Central States Manufacturing | Central Seam Plus | 24 gauge steel |
| American Buildings Company | Standing Seam II Panel | 22 gauge steel | Central Texas Metal Roofing Supply | ShurLoc 175 | 24 gauge steel |
| Architectural Building Components | Permasseam | 22 gauge steel | Centria | SDP 175 | 22 gauge steel |
| Architectural Building Components | Permasseam | 24 gauge steel | Centria | SDP 175 | 24 gauge steel |
| Architectural Building Components | Permasseam | 22 gauge steel | Centria | SDP 200 | 24 gauge steel |
| Architectural Building Components | Permasseam | 24 gauge steel | Centria | SDP 300 | 24 gauge steel |
| Architectural Metal Specialties, Inc. | AMS175 1-3/4" Snap-Lock | 24 gauge steel | Chief Industries | MSC Panel | 22 gauge steel |
| Architectural Metal Specialties, Inc. | AMS175 1-3/4" Snap-Lock | 24 gauge steel | Chief Industries | STC Panel | 22 gauge steel |
| Architectural Metal Specialties, Inc. | UltraSeam US175LS Snap-Lock | 24 gauge steel | Chief Industries | STC Panel | 24 gauge steel |
| ASC Building Products | Steeling Roof System | 22 gauge steel | Chief Industries | MSC Panel | 24 gauge steel |
| Associated Buildings Systems | KA-2000 | 22 gauge steel | Classic Roofing Systems | CR-S 38 (Single Fold) | 22 gauge steel |
| Associated Building Systems | KA-2000 | 24 gauge steel | Classic Roofing Systems | CR-S 25 (Single Fold) | 22 gauge steel |
| ATAS | 2" Field-Lok | 24 gauge steel | Construction Metals, Inc. | Sur-Lock | 22 gauge steel |
| Bax Steel Buildings | Bax-Lock | 22 gauge steel | Construction Metals, Inc. | Barrier Roof | 22 gauge steel |
| Bax Steel Buildings | Bax-Lock | 24 gauge steel | Construction Metals, Inc. | Barrier Roof | 24 gauge steel |
| Bax Steel Buildings, Inc. | Bax-Lock | 22 gauge steel | Construction Metals, Inc. | Sur-Lock | 24 gauge steel |
| Bax Steel Buildings, Inc. | Bax-Lock | 24 gauge steel | Construction Metals, Inc. | Sur-Lock | 24 gauge steel |
| BC Steel Buildings | BCL 24-MS | 22 gauge steel | Copper Sales | UC4 | 24 gauge steel |
| BC Steel Buildings | BCL 24-MS | 24 gauge steel | Corle Building Systems | Seam-Lok | 22 gauge steel |
| BC Steel Buildings | BCL 24-SD | 22 gauge steel | Corle Building Systems | Snap-Seal | 22 gauge steel |
| BC Steel Buildings | BCL 24-SD | 24 gauge steel | Corle Building Systems | Snap-Seal | 24 gauge steel |
| Behlen Building Systems | BCL 24-MS | 24 gauge steel | Corle Building Systems | Seam-Lok | 24 gauge steel |
| Behlen Building Systems | ZL-24 Triple-Lock | 22 gauge steel | Custom Blitt Metals | SL 1750 NT | 24 gauge steel |
| Behlen Building Systems | ZL-16 Triple-Lock | 22 gauge steel | Custom Blitt Metals | CB 150 (Double Fold) NT | 22 gauge steel |
| Berriège | Cee-Lock | 24 gauge steel | Dean Steel Buildings, Inc. | Pro Seam Panel | 22 gauge steel |

Compatible Standing Seam Metal Roofs (SSMR)

| SSMR Manufacturer | SSMR Name | SSMR Thickness | SSMR Manufacturer | SSMR Name | SSMR Thickness |
|----------------------------|---------------------------|----------------|--------------------------|--------------------------------|----------------|
| Dean Steel Buildings, Inc. | Pro Seam Panel | 24 gauge steel | Kirby Building Systems | Kirbylok 2000 | 24 gauge steel |
| Dimensional Metals | SL-25 | 22 gauge steel | Kirby Building Systems | Kirbylok 2000 MS | 24 gauge steel |
| Dimensional Metals | IL-20 | 24 gauge steel | Knudson Building Systems | KR-20 | 24 gauge steel |
| Dimensional Metals | SL-25 | 24 gauge steel | Laura Star-Roof, BV | Spanlock | 22 gauge steel |
| Dimensional Metals | DL-15 | 24 gauge steel | Laura Star-Roof, BV | Artlock | 22 gauge steel |
| Drexel Metals | DMC 1755 Snap Lock 1-3/4 | 22 gauge steel | Laura Star-Roof, BV | Artlock | 24 gauge steel |
| Drexel Metals | DMC 2105 (Armco Style) | 22 gauge steel | MBCI | DoubleLok | 22 gauge steel |
| Drexel Metals | DMC 1755 Snap Lock 1-3/4 | 22 gauge steel | MBCI | DoubleLok | 24 gauge steel |
| Drexel Metals | DMC 2005 2" Double Fold | 22 gauge steel | MBCI | LoKSeam | 22 gauge steel |
| Drexel Metals | DMC 2105 (Armco Style) | 24 gauge steel | MBCI | LoKSeam | 24 gauge steel |
| Drexel Metals | DMC 1505S (Double Fold) | 22 gauge steel | MBCI | UltraDek | 22 gauge steel |
| Drexel Metals | DMC 1755 Snap Lock 1-3/4 | 24 gauge steel | MBCI | UltraDek | 24 gauge steel |
| Englert | Series 2000 | 22 gauge steel | MBCI | DoubleLok | 24 gauge steel |
| Englert | Series 2500 (Double Fold) | 22 gauge steel | MBCI | LoKSeam | 24 gauge steel |
| Englert | Series 2000 | 24 gauge steel | MBCI | SuperLok | 22 gauge steel |
| Englert | Series 2400 (Double Fold) | 22 gauge steel | MBCI | BattenLok | 22 gauge steel |
| Englert | Series 2000 | 24 gauge steel | MBCI | BattenLok | 24 gauge steel |
| Englert | Series 1300 | 24 gauge steel | MBCI | BattenLok | 24 gauge steel |
| Fab Tech, Inc. | Seam-Lok | 22 gauge steel | McElroy Metal | Maxima 1.5" | 22 gauge steel |
| Fab Tech, Inc. | Snap-Seal | 22 gauge steel | McElroy Metal | Medallion-Lok | 22 gauge steel |
| Fab Tech, Inc. | Snap-Seal | 22 gauge steel | McElroy Metal | Maxima 2" ADV | 22 gauge steel |
| Fab Tech, Inc. | Snap-Seal | 24 gauge steel | McElroy Metal | Maxima 2" ADV | 24 gauge steel |
| Fab Tech, Inc. | Seam-Lok | 24 gauge steel | McElroy Metal | Medallion-Lok | 24 gauge steel |
| Fab Tech, Inc. | Thin Seam | 24 gauge steel | McElroy Metal | Master-Lok 90 (ML90) | 22 gauge steel |
| Fabral | Stand N Seam | 24 gauge steel | McElroy Metal | Master-Lok 90 (ML90) | 24 gauge steel |
| Fabral | 3" Snap Rib | 24 gauge steel | McElroy Metal | Maxima 1.5" | 24 gauge steel |
| Firestone | UC14 | 24 gauge steel | McElroy Metal | Medallion-Lok | 24 gauge steel |
| Firestone | UC4 | 24 gauge steel | McElroy Metal | Maxima 2" ADV | 22 gauge steel |
| Follansbee Steel | 1in (25mm) DF (TCS) | .018 TCS II | Merchant & Evans | Interlock | 24 gauge steel |
| Galvak, S.A. De C.V. | Galvalok I | 22 gauge steel | Merchant & Evans | Interlock | .040 aluminum |
| Galvak, S.A. De C.V. | Galvalok I | 24 gauge steel | Merchant & Evans | #305 | 24 gauge steel |
| Galvak, S.A. De C.V. | Galvalok I | 24 gauge steel | Merchant & Evans | #305 | .040 aluminum |
| Galvak, S.A. De C.V. | Galvalok II | 24 gauge steel | Mesco | Double-Lok | 22 gauge steel |
| Garco Building Systems | Garco Standing Seam | 22 gauge steel | Mesco | Ultra Dek | 22 gauge steel |
| Garco Building Systems | Garco Standing Seam | 24 gauge steel | Mesco | Ultra Dek | 24 gauge steel |
| Garland | R-Mer Loc | 22 gauge steel | Mesco | Double-Lok | 24 gauge steel |
| Imetco | Snap Lok 1-3/4" | 22 gauge steel | Metal Sales | Vertical Seam | 22 gauge steel |
| Inland Buildings | IN-LOC | 24 gauge steel | Metal Sales | Vertical Seam | 24 gauge steel |
| Interlock Roofing | Snap Lock 1" | .027 aluminum | Metal Sales | Magna Loc | 24 gauge steel |
| Interlock Roofing | Future Roof 1.5" SF | 26 gauge steel | Metal-Fab Manufacturing | MetFab Snap-On 675 | 24 gauge steel |
| Kingspan USA | KingZip 1020 | 22 gauge steel | Metal-Fab Manufacturing | MetFab II Panel | 22 gauge steel |
| Kirby Building Systems | Kirbylok 2000 MS | 22 gauge steel | Metal-Fab Manufacturing | MetFab II Panel | 24 gauge steel |
| Kirby Building Systems | Kirbylok 2000 | 22 gauge steel | Metal-Fab Manufacturing | MetFab Historic Panel 1.5" DBF | 22 gauge steel |

Compatible Standing Seam Metal Roofs (SSMR)

| SSMR Manufacturer | SSMR Name | SSMR Thickness | SSMR Manufacturer | SSMR Name | SSMR Thickness |
|----------------------------|---------------------------|----------------|------------------------------|---------------------|----------------|
| Metal-Fab Manufacturing | MetaFab Snap-on 550 Panel | 24 gauge steel | Steel Span, Inc. | Architectural | 24 gauge steel |
| Morin | SLR | 22 gauge steel | Steelco | Sur-Lock | 22 gauge steel |
| Morin | SWL | 22 gauge steel | Steelco | Barrier Roof Panels | 22 gauge steel |
| Morin | SLR | 24 gauge steel | Steelco | Barrier Roof Panels | 24 gauge steel |
| Morin | SWL | 24 gauge steel | Steelco | Sur-Lock | 24 gauge steel |
| NG/Midwest Metallic | Double-Lok | 22 gauge steel | Steelway Building Systems | RTL-24 Quad Loc | 22 gauge steel |
| NG/Midwest Metallic | Weather Roof III | 22 gauge steel | Steelway Building Systems | RTL-24 Quad Loc | 24 gauge steel |
| NG/Midwest Metallic | Ultra Deck | 22 gauge steel | Taylor Metals | Versa-Span | 24 gauge steel |
| NG/Midwest Metallic | Weather Roof II | 22 gauge steel | Taylor Metals | MS 200 | 22 gauge steel |
| NG/Midwest Metallic | Ultra Deck | 24 gauge steel | Taylor Metals | MS 200 | 24 gauge steel |
| NG/Midwest Metallic | Weather Roof II | 24 gauge steel | Tremco | Tremlock LSP | 22 gauge steel |
| NG/Midwest Metallic | Double-Lok | 24 gauge steel | Triad Corrugated Metal, Inc. | Snap Lock 1-3/4 | 24 gauge steel |
| NG/Midwest Metallic | Weather Roof III | 24 gauge steel | U.S. Metals | US-179LS | 22 gauge steel |
| NG/Midwest Metallic | 216 | 22 gauge steel | U.S. Metals | US-179LS | 24 gauge steel |
| NG/Midwest Metallic | BattenLok | 22 gauge steel | U.S. Metals | US-150 | 22 gauge steel |
| NG/Midwest Metallic | 216 | 24 gauge steel | Una-Clad | UC14 | 24 gauge steel |
| NG/Midwest Metallic | BattenLok | 24 gauge steel | Una-Clad | UC4 | 24 gauge steel |
| New Tech Machinery | SS 675 Snap Lock 1-3/4 | 24 gauge steel | Union Corrugating Company | ML150 (Double Fold) | 22 gauge steel |
| New Tech Machinery | SS 210A (Armco Style) 2 | 22 gauge steel | Union Corrugating Company | SL150 | 24 gauge steel |
| New Tech Machinery | SS 210A (Armco Style) 2 | 24 gauge steel | United Structures of America | Guardian II | 22 gauge steel |
| New Tech Machinery | SS 150 (Double Fold) | 22 gauge steel | United Structures of America | Guardian I | 22 gauge steel |
| New Tech Machinery | SS 675 Snap Lock 1-3/4 | 24 gauge steel | United Structures of America | Guardian I | 24 gauge steel |
| New Tech Machinery | SS 550 Snap Lock 1 1/2 | 24 gauge steel | United Structures of America | Guardian II | 24 gauge steel |
| Nu Ray Metals | Series 2000 Standing Seam | 24 gauge steel | Varco Pruden | SSR | 24 gauge steel |
| Nucor Building Systems | VR16-II Vise-Lock 360 | 24 gauge steel | Varco Pruden | SLR | 22 gauge steel |
| Nucor Building Systems | CFR Vise Lock 360 Seam | 24 gauge steel | Whirwind Building Systems | Super Seam Plus | 22 gauge steel |
| OC Metals | OCM175 SL | 24 gauge steel | Whirwind Building Systems | Super Seam II | 22 gauge steel |
| OC Metals | OCM175 SL | 24 gauge steel | Whirwind Building Systems | Super Seam II | 24 gauge steel |
| Petersen Aluminum Corp | Snap Clad | 24 gauge steel | Whirwind Building Systems | Super Seam Plus | 24 gauge steel |
| Petersen Aluminum Corp | Snap Clad | 22 gauge steel | Zamil Steel Industries | Max Seam | 22 gauge steel |
| Petersen Aluminum Corp | Snap Clad | 24 gauge steel | Zamil Steel Industries | Max Seam | 24 gauge steel |
| Petersen Aluminum Corp | Snap Clad | 22 gauge steel | Zimmerman Metals, Inc. | SL1750 | 22 gauge steel |
| Petersen Aluminum Corp | Tite-Loc Plus | 24 gauge steel | Zimmerman Metals, Inc. | SL1750 | 24 gauge steel |
| Petersen Aluminum Corp | Tite-Loc | 24 gauge steel | | | |
| Petersen Aluminum Corp | Tite-Loc | 24 gauge steel | | | |
| Rigid Global Buildings | Platinum Series Quad-Lok | 24 gauge steel | | | |
| Rigid Global Buildings | Hi-Tech Series Quad-Lok | 24 gauge steel | | | |
| Robertson Building Systems | Starshield-SSR | 24 gauge steel | | | |
| Schulte Building Systems | TS-324 TripleLok | 24 gauge steel | | | |
| Star | Starshield | 24 gauge steel | | | |
| Steel Span, Inc. | Trapezoidal | 24 gauge steel | | | |
| Steel Span, Inc. | Trapezoidal | 24 gauge steel | | | |
| Steel Span, Inc. | Architectural | 22 gauge steel | | | |