

GUARDIAN

FALL PROTECTION



Product Name: **Permanent Adjustable Standing Seam Roof Anchor**

Part #: 53221; 53569

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 Permanent Adjustable Standing Seam Roof Anchor. 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 Permanent Adjustable Standing Seam Roof Anchor, and all fall safety equipment used in combination with the Permanent Adjustable Standing Seam Roof Anchor.

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, OSHA 1910, ANSI Z359.18-2017, and ANSI A10.32-2012 standards for fall protection. This product has been tested in compliance with the requirements of ANSI/ASSE Z359.7. Testing only covers hardware and does not extend to the anchorage or substrate to which this product is attached. 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 personal fall arrest systems and associated components.

Worker Classifications

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



WARNING Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.



Personal Fall Arrest: Permanent Adjustable Standing Seam Roof Anchor may be used to support a MAXIMUM 1 PFAS for use in Fall Arrest applications. Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Maximum free fall is 6', or up to 12' if used in combination with equipment explicitly certified for such use. Applicable D-ring: Dorsal.



Restraint: Permanent Adjustable Standing Seam Roof Anchor may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. Structure must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). Applicable D-rings: Dorsal, Chest, Side, Shoulder.



Work Positioning: Permanent Adjustable Standing Seam Roof Anchor may be used in Work Positioning applications. Work Positioning systems allow a worker to be supported while in suspension and work freely with both hands. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. Maximum allowable free fall is 2'. Applicable D-rings: Side.



Rescue/Confined Space: Permanent Adjustable Standing Seam Roof Anchor may be used in Rescue/Confined Space applications. Rescue systems function to safely recover a worker from a depending location or after exposed to a fall. There are various configurations of Rescue systems depending on the type of rescue. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. No free fall is permitted. Applicable D-rings: Dorsal, Chest, Shoulder.

**For all applications: worker weight capacity range
(including all clothing, tools, and equipment) is 130-420 lbs.**

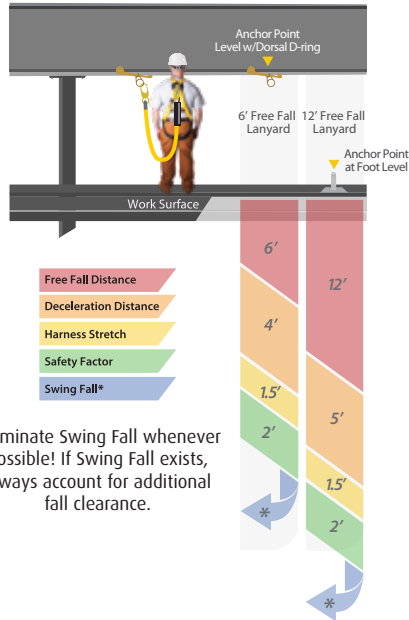


Limitations

Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or any obstruction. When calculating fall clearance, account for a **MINIMUM 2'** safety factor, free fall, deceleration distance, harness stretch, swing fall, and all other applicable factors.

Diagram shown is an example fall clearance calculation ONLY.

Fall clearance calculation shown based on standing worker falling directly in-line with anchor point. Always consider potential swing fall and other hazards when calculating fall clearance.



Swing Falls: Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.

Compatibility: When making connections with Permanent Adjustable Standing Seam Roof Anchor, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with Permanent Adjustable Standing Seam Roof Anchor by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs. See the following for examples of compatible/incompatible connections:

Connector closed and locked to D-ring. **OK.**



Connector to integral lanyard. **NO.**

Two connectors to same D-ring. **NO.**



Connector directly to webbing. **NO.**

Incompatible or irregular application, which may increase risk of roll-out. **NO.**



Connector directly to horizontal lifeline. **NO.**

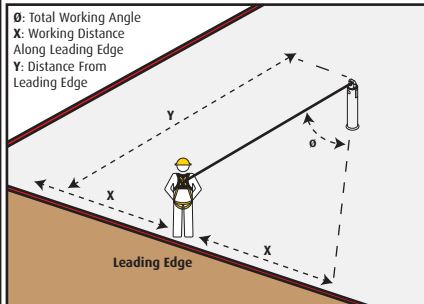
Two or more snap hooks or carabiners connected to each other. **NO.**



Correct Anchorage Positioning:

This chart details allowable working zones required to reduce risk of swing falls and improper side loading. ALWAYS adhere to information specified by chart.

Anchor Distance From Leading Edge (Y)	Working Distance Along Roof Edge (Either Direction) (X)	Working Angle From Perpendicular (θ)
6'	8'	53°
10'	9' - 9"	45°
15'	11' - 7"	38°
20'	13' - 3"	33°
25'	14' - 6"	30°
30'	16'	28°
35'	17' - 2"	26°
40'	18' - 3"	24°
45'	19' - 4"	23°
50'	19' - 10"	21°
55'	21' - 4"	21°
60'	22' - 3"	21°



For example, if the anchorage connector is 6' from the leading edge (Y), the working distance (X) is 8' in each direction from the perpendicular, which translates to a 53° working angle.

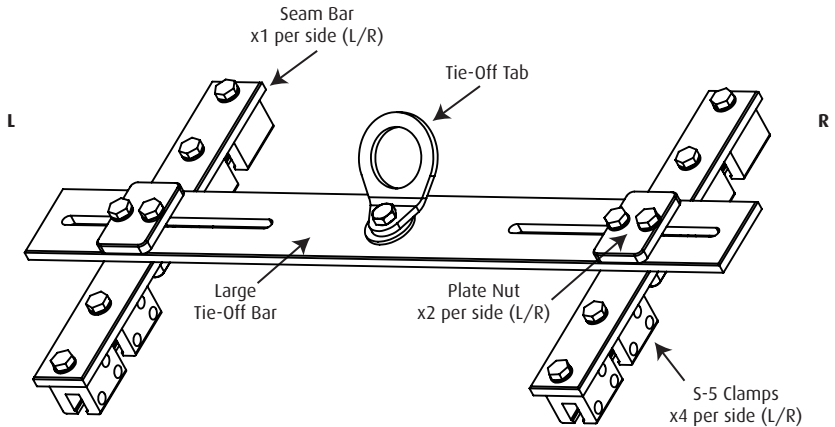
Components and Specifications

Some assembly of components is necessary prior to installation and use of Permanent Adjustable Standing Seam Roof Anchor. Always use fasteners, S-5 Clamps, and Set Screws provided by Guardian Fall Protection. Components are manufactured from the following materials:

- Large Tie-Off Bar: Aluminum
- Seam Bar (2): Aluminum
- Tie-Off Tab: Stainless Steel
- S-5 Clamp (8): Aluminum

(2) Set Screws are provided with each S-5 clamp. S-5 Clamps are designed with four Set Screw holes for increased versatility, but require only two Set Screws for use with the Permanent Adjustable Standing Seam Roof Anchor.

Part #	Description
53221	Permanent Adjustable Standing Seam Roof Anchor. Includes (2) Seam Bars, (4) Plate Nuts, (1) Tie-Off Bar, (1) Tie-Off Tab, (8) S-5 Clamps, & All Fastening Bolts
53569	Replacement S-5-U Clamp w/Fasteners
D105-0019	Anti-Seize



Installation and Use

A Qualified Person must be responsible for the supervision of the installation of the Permanent Adjustable Standing Seam Roof Anchor, and must verify both standing seam roof and existing structure meet all compatibility and minimum strength requirements, as specified by this instruction manual. This anchor is primarily intended for permanent installations, but may also be used in multiple installations. Always use new fasteners and nylock nuts for each installation application.

Prior to installation:

1. Ensure make, model, and material of selected standing seam metal roof (SSMR) are compatible with the Permanent Adjustable Standing Seam Roof Anchor. Refer to compatible SSMR list (pgs. 9-11). If SSMR does not appear on this list, do not install Permanent Adjustable Standing Seam Roof Anchor.

WARNING	Qualified Person must determine Permanent Adjustable Standing Seam Roof Anchor is compatible with roof seam. NEVER attach to incompatible roof seams.
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2. All PFAS equipment must be selected and deemed compatible with the Permanent Adjustable Standing Seam Roof Anchor by a Competent Person.

3. Work surface must be free of any and all deficiencies, including, but not limited to, corrosion, rust, deformation, cracking, debris, and loose materials that may infringe upon the stability of the Permanent Adjustable Standing Seam Roof Anchor.

4. Consider and minimize all existing and potential swing fall hazards.

5. Permanent Adjustable Standing Seam Roof Anchor is rated for loading in any direction provided it is installed as prescribed.

6. Permanent Adjustable Standing Seam Roof Anchor may be used in combination with a temporary horizontal lifeline (HLL) system. No intermediate anchorage connectors may be used in a temporary HLL system of which the Permanent Adjustable Standing Seam Roof Anchor is a part. For use with permanent HLL systems, please contact Guardian Fall Protection for additional assistance.

Assembly:

Torque all fasteners to 25-30 foot-pounds and ensure that MINIMUM 1 complete bolt thread is visible.

1. Install Tie-Off Tab to Tie-Off Bar:

Apply provided anti-seize (or equivalent) to 2" x 5/8"-18 Bolt.

Insert bolt through Tie-Off Tab bolt hole, through washer, through Tie-Off Bar, and secure with lock nut. Tighten lock nut against underside of Tie-Off Bar. Tie-Off Tab must swivel freely a full 360°.

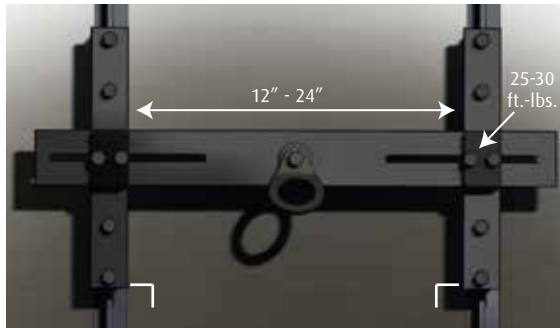


2. Install all (8) S-5 Clamps (4 per Seam Bar) onto Seam Bars prior to installation of Seam Bars onto Tie-Off Bar. Insert bolt through washer, through Seam Bar, and through one of top two S-5 Clamp holes. One bolt and one washer per S-5 Clamp.

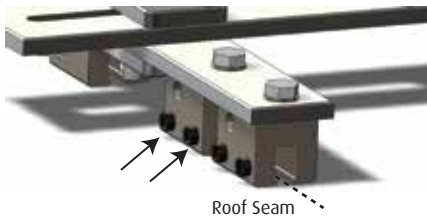


Installation:

1. 3/16" Allen wrench attachment tip (provided with S-5 Clamps) is required for installation of Permanent Adjustable Standing Seam Roof Anchor. To install, attach Allen wrench attachment to compatible 1/4" drive screw gun.
2. Adjust Permanent Adjustable Standing Seam Roof Anchor to match roof seam spacing. Compatible with roof seams from 12" - 24" apart. Tighten all (4) bolts on Tie-Off Bar to 25-30 foot-pounds.
3. Place all S-5 Clamps over selected roof seams. Both sets of S-5 Clamps must be the same distance from roof edge.



4. Insert Set Screws in bottom two holes of all S-5 Clamps. All Set Screws must face same direction. Ensure all Set Screws will compress against roof seam when fully installed.



5. Use 3/16" Allen wrench attachment (provided with S-5 Clamps) with compatible 1/4" drive screw gun to install Set Screws.

- If roof is 22 gauge or thicker, torque all S-5 Clamp Set Screws to between 13.33-15 foot-pounds.
- If roof is thinner than 22 gauge, torque all S-5 Clamp Set Screws to between 10.83-12.5 foot-pounds.



WARNING

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

6. As installation of Set Screws progresses, torque values of already installed Set Screws may change as tension on roof seam increases. As necessary, re-torque Set Screws until all Set Screws are within torque range specified by this instruction manual. Measure Set Screw torque with torque wrench.

WARNING

When applying torque to Set Screws, ensure that selected drive screw gun (with 3/16" Allen wrench attachment) is applying consistent and adequate torque. Prior to each use, ALWAYS use properly calibrated torque wrench to ensure all Set Screws are adequately torqued.



Compatible Standing Seam Metal Roofs (SSMR)

SSMR Manufacturer	SSMR Name	SSMR Thickness	SSMR Manufacturer	SSMR Name	SSMR Thickness
A&S	Double-Lok	22 gauge steel	Byer Company	TBC-Ultra	22 gauge steel
A&S	DuraSeal Seam	22 gauge steel	Byer Company	TBC-Ultra	24 gauge steel
A&S	DuraSeal Snap	22 gauge steel	Byer Company	TBC-Superseam (Single Fold)	22 gauge steel
A&S	Ultra Deck	22 gauge steel	Byer Company	TBC-Superseam (Double Fold)	24 gauge steel
A&S	DuraSeal Snap	24 gauge steel	Byer Company	TBC-Superseam (Single Fold)	24 gauge steel
A&S	Ultra Deck	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
AEP Span	Snap Seam	22 gauge steel	Carlisle Engineered Metals, Inc.	Architectural Panel	24 gauge steel
AEP Span	Snap Seam	24 gauge steel	Carlisle Engineered Metals, Inc.	VersaLok Panel	22 gauge steel
AEP Span	Span Seam (DBF)	22 gauge steel	Carlisle Engineered Metals, Inc.	VersaLok Panel	24 gauge steel
AEP Span	MultiLok (Quad Lok)	24 gauge steel	CBC Steel Buildings	SS 24	24 gauge steel
AEP Span	Span Seam (DBF)	24 gauge steel	Ceco	CXP	22 gauge steel
AEP Span	Span Lok HP 2" SF	22 gauge steel	Ceco	CXP	24 gauge steel
AEP Span	Design Span hp	22 gauge steel	Ceco	CXP	22 gauge steel
All Weather Insulated Panels (AWIP)	5R 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	24 gauge steel	Central States Manufacturing	Central Seam Plus	24 gauge steel
American Buildings Company	Standing Seam II Panel	22 gauge steel	Central States Manufacturing	ShurLoc 175	24 gauge steel
Architectural Building Components	Permasseam	22 gauge steel	Central Texas Metal Roofing Supply	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 US17LS Snap-Lock	24 gauge steel	Chief Industries	STC Panel	24 gauge steel
ASC Building Products	Sterling Roof System	22 gauge steel	Chief Industries	MSC Panel	24 gauge steel
Associated Building 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
Box Steel Buildings	Box-Lock	22 gauge steel	Construction Metals, Inc.	Barmer Roof	22 gauge steel
Box Steel Buildings	Box-Lock	24 gauge steel	Construction Metals, Inc.	Barmer Roof	24 gauge steel
Box Steel Buildings, Inc.	Box-Lock	22 gauge steel	Construction Metals, Inc.	Sur-Lock	24 gauge steel
Box Steel Buildings, Inc.	Box-Lock	24 gauge steel	Copper Sales	UCA	24 gauge steel
BC Steel Buildings	BCL 24-MS	22 gauge steel	Corfe Building Systems	Seam-Lok	22 gauge steel
BC Steel Buildings	BCL 24-SD	24 gauge steel	Corfe Building Systems	Snap-Seal	24 gauge steel
BC Steel Buildings	BCL 24-SD	24 gauge steel	Corfe Building Systems	Snap-Seal	24 gauge steel
BC Steel Buildings	BCL 24-MS	24 gauge steel	Corfe 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
Berridge	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	24 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	24 gauge steel	Laura Star-Roof, BV	Artlock	24 gauge steel
Drexel Metals	DMC 2105 (Armco Style)	22 gauge steel	MBCI	LoKSeam	22 gauge steel
Drexel Metals	DMC 1755 Snap Lock 1-3/4	24 gauge steel	MBCI	DoubleLok	22 gauge steel
Drexel Metals	DMC 2005 2" Double Fold	22 gauge steel	MBCI	LoKSeam	24 gauge steel
Drexel Metals	DMC 2105 (Armco Style)	24 gauge steel	MBCI	LoKSeam	22 gauge steel
Drexel Metals	DMC 1505 (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)	24 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
Englert	Series 2000	22 gauge steel	McElroy Metal	Maxima 1.5"	22 gauge steel
Fab Tech, Inc.	Seam-Lok	22 gauge steel	McElroy Metal	Medallion-Lok	22 gauge steel
Fab Tech, Inc.	Seam-Lok	22 gauge steel	McElroy Metal	Maxima 2" ADV	22 gauge steel
Fab Tech, Inc.	Snap-Seal	24 gauge steel	McElroy Metal	Maxima 2" ADV	22 gauge steel
Fab Tech, Inc.	Snap-Seal	24 gauge steel	McElroy Metal	Medallion-Lok	24 gauge steel
Fab Tech, Inc.	Snap-Seal	24 gauge steel	McElroy Metal	Medallion-Lok	22 gauge steel
Fab Tech, Inc.	Seam-Lok	24 gauge steel	McElroy Metal	Master-Lok 90 (ML90)	22 gauge steel
Fabral	Thin-Seam	24 gauge steel	McElroy Metal	Master-Lok 90 (ML90)	24 gauge steel
Fabral	Stand N Seam	24 gauge steel	McElroy Metal	Maxima 1.5"	24 gauge steel
Fabral	3" Snap Rib	24 gauge steel	McElroy Metal	Medallion-Lok	24 gauge steel
Firestone	UC14	24 gauge steel	McElroy Metal	Maxima 2" ADV	24 gauge steel
Firestone	UC4	24 gauge steel	McElroy Metal	ML-FS	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 II	22 gauge steel	Merchant & Evans	Interlock	.040 aluminum
Galvak, S.A. De C.V.	Galvalok I	22 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	24 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	Ultra Dek	24 gauge steel
Imetco	Snap Lok 1-3/4"	22 gauge steel	Mesco	Double-Lok	24 gauge steel
Inland Buildings	IN-LOC	24 gauge steel	Metal Sales	Vertical Seam	22 gauge steel
Inland Buildings	Snap Lock 1"	24 gauge steel	Metal Sales	Vertical Seam	24 gauge steel
Inland Buildings	Future Roof 1.5" SF	.027 aluminum	Metal Sales	Magna Loc	22 gauge steel
Inland Buildings	Future Roof 1.5" SF	26 gauge steel	Metal-Fab Manufacturing	MetaFab Snap-On 675	24 gauge steel
Kingspan USA	KingZip 1020	22 gauge steel	Metal-Fab Manufacturing	MetaFab III Panel	22 gauge steel
Kingspan USA	KingZip 1020	22 gauge steel	Metal-Fab Manufacturing	MetaFab III Panel	24 gauge steel
Kirby Building Systems	Kirbylok 2000 MS	22 gauge steel	Metal-Fab Manufacturing	MetaFab Historic Panel 1.5" DBF	24 gauge steel
Kirby Building Systems	Kirbylok 2000	22 gauge steel	Metal-Fab Manufacturing	MetaFab 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	MeFab Snap-on 550 Panel	24 gauge steel	Steel Span, Inc.	Architectural	24 gauge steel
Morn	SLR	22 gauge steel	Steelco	Sur-Lock	22 gauge steel
Morn	SWL	22 gauge steel	Steelco	Barner Roof Panels	24 gauge steel
Morn	SLR	24 gauge steel	Steelco	Barner Roof Panels	24 gauge steel
Morn	SWL	24 gauge steel	Steelco	Sur-Lock	24 gauge steel
NCI/Midwest Metallic	Double-Lok	22 gauge steel	Steelway Building Systems	RTL-24 Quad Loc	24 gauge steel
NCI/Midwest Metallic	Weather Roof III	22 gauge steel	Steelway Building Systems	RTL-24 Quad Loc	24 gauge steel
NCI/Midwest Metallic	Ultra Deck	22 gauge steel	Taylor Metals	Versa-Span	24 gauge steel
NCI/Midwest Metallic	Weather Roof II	22 gauge steel	Taylor Metals	MS 200	22 gauge steel
NCI/Midwest Metallic	Ultra Deck	24 gauge steel	Taylor Metals	MS 200	24 gauge steel
NCI/Midwest Metallic	Weather Roof II	24 gauge steel	Tremco	TremLock LSP	22 gauge steel
NCI/Midwest Metallic	Double-Lok	24 gauge steel	Triad Corrugated Metal, Inc.	Snap Lock 1-3/4	24 gauge steel
NCI/Midwest Metallic	Weather Roof III	24 gauge steel	U.S. Metals	US-175LS	22 gauge steel
NCI/Midwest Metallic	216	22 gauge steel	U.S. Metals	US-175LS	24 gauge steel
NCI/Midwest Metallic	BattenLok	22 gauge steel	U.S. Metals	US-150	22 gauge steel
NCI/Midwest Metallic	216	24 gauge steel	Una-Clad	UC14	24 gauge steel
NCI/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 210K (Armco Style) 2	22 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	24 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 Proden	SSR	24 gauge steel
Nucor Building Systems	VR1E-II Vise-Lock 360	24 gauge steel	Varco Proden	SLR	22 gauge steel
Nucor Building Systems	CR Vise Lock 360 Seam	24 gauge steel	Whirwind Building Systems	Super Seam Plus	22 gauge steel
OC Metals	OCM 175 SL	24 gauge steel	Whirwind Building Systems	Super Seam II	22 gauge steel
OC Metals	OCM 175 SL	24 gauge steel	Whirwind Building Systems	Super Seam II	24 gauge steel
Petersen Aluminum Corp	Snap Clad	22 gauge steel	Whirwind Building Systems	Super Seam Plus	24 gauge steel
Petersen Aluminum Corp	Snap Clad	24 gauge steel	Zamil Steel Industries	Max Seam	22 gauge steel
Petersen Aluminum Corp	Snap Clad	22 gauge steel	Zamil Steel Industries	Max Seam	24 gauge steel
Petersen Aluminum Corp	Snap Clad	24 gauge steel	Zamil Steel Industries	Max Seam	24 gauge steel
Petersen Aluminum Corp	Tile-Loc Plus	22 gauge steel	Zimmerman Metals, Inc.	SL1750	22 gauge steel
Petersen Aluminum Corp	Tile-Loc	22 gauge steel	Zimmerman Metals, Inc.	SL1750	24 gauge steel
Petersen Aluminum Corp	Tile-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	22 gauge steel			
Steel Span, Inc.	Architectural	22 gauge steel			

Maintenance, Cleaning, and Storage

If Permanent Adjustable Standing Seam Roof Anchor fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair. Field serviceability testing is not required, and should not be done by the end user.

Cleaning after use is important for maintaining the safety and longevity of Permanent Adjustable Standing Seam Roof Anchor. Remove all dirt, corrosives, and contaminants from Permanent Adjustable Standing Seam Roof Anchor before and after each use. If Permanent Adjustable Standing Seam Roof Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Permanent Adjustable Standing Seam Roof Anchor 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 Permanent Adjustable Standing Seam Roof Anchor 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 Permanent Adjustable Standing Seam Roof Anchor from service if defects or damage are found, or if exposed to forces of fall arrest.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.

At least every 12 months, a Competent Person other than the user must inspect Permanent Adjustable Standing Seam Roof Anchor. **Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. 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 Permanent Adjustable Standing Seam Roof Anchor have 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.

This inspection log must be specific to one Permanent Adjustable Standing Seam Roof Anchor. Separate inspection logs must be used for each Permanent Adjustable Standing Seam Roof Anchor. All inspection records must be made visible and available to all users at all times.

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If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.

Safety Information



Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.

Do not alter equipment. Do not misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased new and in an unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner. Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a Competent Person.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 6'. No free fall allowed for non-LE SRLs. Class A SRLs must arrest falls within 24"; Class B SRLs must arrest falls within 54".

Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a Competent Person. Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.


NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to forces of fall arrest must immediately be removed from use.

Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment. Pregnant women and minors must not use this equipment.

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.

Labels

1-800-466-6385 guardianfall.com		90027 (Rev. F) Assembled in USA
Permanent Adjustable Standing Seam Roof Anchor		
Part #: 53221 DOM: [REDACTED] Serial #: [REDACTED]		
Compliant with all OSHA 1910, 1926 Subpart M, ANSI Z359.18-2017, and ANSI A10.32-2012 regulations.		
Prior to use, read and understand all manufacturer's instructions provided with equipment at time of shipment from manufacturer.		
Type A anchorage connector. 5,000 lb. MBS (minimum breaking strength). Minimum service temperature: -30° F. Worker capacity: 130-420 lbs. (including all equipment). Material: Aluminum and stainless steel. Only make compatible connections. Refer to instructions for proper connection methods. MAXIMUM 1 connection per anchor. All PFAS equipment must be selected and deemed compatible by Competent Person. Refer to instructions for installation requirements and for a list of compatible standing seam roofs.		
<div style="background-color: #e67e22; color: white; padding: 5px; display: inline-block; border: 1px solid black;"> WARNING </div>		
Qualified Person must ensure roof seam compatibility. Prior to use, ensure all Set Screws are torqued correctly. Avoid contact with hazards, including, but not limited to, heat, chemicals, electricity, and sharp or abrasive edges and surfaces.		

INSPECTION GRID

User must inspect prior to EACH use. Competent Person must complete formal inspection every 12 months. Competent Person to inspect and initial.

Date of First Use: _____.

Product lifetime is indefinite as long as equipment passes pre-use and Competent Person inspections.

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If equipment fails inspection
IMMEDIATELY REMOVE FROM SERVICE

DO NOT REMOVE LABELS