025-4129

Standing Seam HLL Anchor Manual

STANDARDS	
ANSI	N/A
OSHA	1926.502, 1910.140, 1910.66

This manual intends to meet the Manufacturer's Instructions specified by the American National Standards Institute (ANSI) and should be utilized as part of an employee training program as required by the Occupational Safety and Health Administration (OSHA).

Read and understand instructions before using equipment!
Do not throw away instructions!

Always verify the latest revision of the Safewaze Manual is being utilized.
Visit the Safewaze website, or contact Customer Service, for updated manuals.

⚠IMPORTANT:

- Please refer to this manual for essential instructions on the use, care, or suitability of this equipment for your application. Contact Safewaze for any additional questions.
- Record all important product information prior to use. Documentation of all Competent Person annual inspections is required in the Inspection Log.

▶ USER INFORMATION

Date of First Use: _____

Serial Number: _____

Trainer: _____

User: _____

▶ SAFETY INFORMATION AND PRECAUTIONS

- The manufacturer's instructions must be provided to users of this equipment.
- The user must read, understand, and follow all safety and usage information contained within this manual.
- The user must safely and effectively use the product and all equipment used in conjunction with the product.
- Failure to follow all safety and usage information can result in serious injury or death.

⚠Warnings:

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.

The warnings indicated below are designed to minimize risk associated with the use of the Standing Seam HLL Anchor.

- Users should consult with their doctor to verify ability to safely absorb the forces of a fall arrest event. Fitness level, age, and other health conditions can greatly affect an individual's ability to withstand fall arrest forces. Women who are pregnant and individuals considered minors must not use any Safewaze equipment.
- Do not alter or misuse equipment. Only Safewaze, or entities authorized in writing by Safewaze, may make repairs to Safewaze fall protection equipment.
- A Competent Person must conduct an analysis of the workplace and anticipate where workers will be conducting their duties, the route they will take to reach their work, and any existing and potential fall hazards. The Competent Person must choose the fall protection equipment to be utilized. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased in new and unused condition.
- If work is conducted in a high heat environment, ensure that Arc Flash or other suitable fall protection equipment is utilized.
- Use of a body belt is not authorized for fall arrest applications.
- Work directly under the anchor point as much as possible to minimize swing fall hazards.
- The user must ensure that there is adequate fall clearance when working at height.
- Anchors that are exposed to fall arrest forces must be immediately removed from service and destroyed.
- Training of Authorized Persons to correctly install, inspect, disassemble, 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.
- If conducting training operations with this equipment, a secondary fall protection system must be installed and utilized to ensure the trainee is not exposed to unintended fall hazards.
- Equipment designated for fall protection must never be used to lift, hang, support, or hoist tools or equipment unless specifically certified for such use.
- Avoid using the anchor in applications where engulfment hazards exist.
- Avoid moving machinery, sharp and/or abrasive edges, and any other hazard that could damage or degrade the component.
- Utilize extra caution to keep lifeline free from any obstructions including, but not limited to, surrounding objects, tools, equipment, moving machinery, co-workers, yourself, or possible impact from overhead objects.
- Ensure the roof sheathing is secured to a structural member that is capable of sustaining static loads required by this product prior to attachment.
- Only use fasteners approved by Safewaze for use with this device.
- Always verify the device seam clamps are compatible with the roof seam.

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▶ 1.0 INTRODUCTION

Thank you for purchasing a Safewaze Standing Seam HLL 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 reusable, non-penetrating anchor is designed for installation on a flat or pitched standing seam roof with seam spacing from 24 to 40 inches (61-101.6 cm) and a minimum gauge of 26.

The Standing Seam HLL Anchor acts as a single anchorage connector for fall protection equipment and can be used with Energy Absorbing Lanyards, Vertical Lifelines (VLLs), Horizontal Lifelines (HLLs), and Self-Retracting Lifelines (SRLs).

▶ 2.0 INTENDED USE

The equipment covered in this manual is intended for use as part of a complete personal fall protection system. Use of this equipment for any other purpose including, but not limited to, sports or recreational activities, non-approved material handling applications, or other action not described in these instructions, is not approved by Safewaze.

Use of this equipment in a manner outside the scope of those covered within this manual can result in serious injury or death. The equipment covered in this manual must only be used by trained personnel in workplace applications. If the anchor is used for training, a secondary fall protection system must be used so the trainee is not exposed to accidental fall hazards.

▶ 3.0 APPLICABLE SAFETY STANDARDS

When used according to instructions, this product meets **OSHA 1926.502**, **1910.140, and 1910.66** regulations. Applicable standards and regulations depend on the type of work being done and may include state-specific regulations.

Refer to local, state, and federal requirements for additional information on the governing of occupational safety regarding Personal Fall Arrest Systems (PFAS).

▶ 4.0 WORKER CLASSIFICATIONS

Read and understand the definitions of those who work in proximity of, or may be exposed to, fall hazards:

Qualified Engineer: A person with a Bachelor of Science in Engineering degree from an accredited college or university. They are able to assume personal responsibility for the development and application of engineering science and knowledge in the design, construction, use, and maintenance of their projects.

Qualified Person: One who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated their ability to solve or resolve problems relating to the subject matter, the work, or the project.

Competent Person: One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Authorized Person: A person approved or assigned by the employer to perform a specific type of duty or duties, or to be at a specific location or locations, at the jobsite.

It is the responsibility of a Qualified Person or Engineer to supervise the jobsite and ensure safety regulations are met.

▶ 5.0 RESCUE PLAN

Prior to the use of this equipment, employers must create a rescue plan in the event of a fall and provide the means to implement the plan through training. The rescue plan must be specific to the project. The rescue plan must allow for employees to rescue themselves or be promptly rescued by alternative means.

This plan must be communicated to/understood by all equipment users, authorized persons, and rescuers. Rescue operations may require specialized equipment beyond the scope of this manual. Every user must be trained in the inspection, installation, operation, and proper usage of their Rescue Equipment and Rescue Plan. See ANSI Z359.4-2013 for specific rescue information. Immediately seek medical attention in the event a worker suffers a fall arrest incident.

Note: Special rescue measures may be required for a fall over an edge.

▶ 6.0 PRODUCT LIMITATIONS

When installing or using this equipment always refer to the following requirements and limitations:

- **Capacity Range**: ANSI 130-310 lbs. (59-141 kg) and OSHA up to 420 lbs. (191 kg). *including clothing, tools, equipment, etc.
- **Anchorage**: Anchorages selected for fall arrest systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
    1. 5,000 lbs. (2267.9 kg) for non-certified anchorages, or
    2. Two times the maximum arresting force for certified anchorages.
    3. 3,100 lbs. for Rescue applications.

  When more than one fall arrest system is attached to an anchorage, the strengths set forth in one of the above shall be multiplied by the number of systems attached to the anchorage.

  From OSHA 1926.502 and 1910.66: Anchorages used for attachment of personal fall arrest systems shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 lbs. (2267.9 kg) per user attached. Or, anchorages for attachment should be designed, installed, and used as part of a complete PFAS which maintains a safety factor of at least two and is under the supervision of a Qualified Person.

- **Locking Speed**: The nature of this equipment requires a clear fall path to ensure the SRL will lock in the event of a fall. Working in obstructed fall paths, cramped areas, or on moving materials like sand and grain, may not allow the user's body to gain enough speed buildup to cause the SRL to engage and lock in the event of a fall.

- **Free Fall**: The maximum allowable free fall is 6 feet. Limit free fall distance by keeping anchorage in-line with work area.

- **Swing Falls**: As the user moves laterally away from an overhead anchor point, the risks related to swing falls increase. The force of striking an object involving swing fall can in some instances generate more forces than a fall with the user wearing no fall protection equipment. Minimize swing falls by working as directly below the anchorage point as possible.

- **Fall Clearance**: Fall Clearance (FC) is the total combined values of the Rope Elongation, Lanyard Length, Deceleration Distance, Harness Stretch, Height of Worker, and Safety Factor. Safewaze uses a 2 ft. Safety Factor. The Safety Factor includes fall arrester slippage. Refer to the chosen PFAS system product manual when calculating fall clearance.

  Additional Fall Clearance is required for falls from a kneeling or crouched position. If a Swing Fall hazard exists, the total vertical fall distance will be greater than if the user had fallen directly under the anchor point. This manual provides information regarding Swing Fall hazards and additional Fall Clearance Requirements in Section 9.

- **Hazards**: Extra precautions should be taken if this equipment is used in an environment where hazards exist. Hazards can include, but are not limited to, moving machinery, high voltage equipment or power lines, caustic chemicals, corrosive environments, toxic or explosive gases, or high heat. Avoid working in an area where overhead equipment or personnel could fall and contact the user, fall protection equipment, or the lifeline. Areas where the user's lifeline may cross or tangle with the lifeline of another user should be avoided. Do not allow the lifeline to pass under arms or between the legs.

- **Sharp Edges**: Safewaze Class 2 SRLs are designed for use in both Overhead and Leading Edge Environments. Should a specific work area have extremely sharp edge(s) that may come into contact with the lifeline constituent of the SRL, a Class 2 SRL is required.

▶ 7.0 ALLOWED ANCHORAGE APPLICATIONS

Personal Fall Arrest: Safewaze Anchors are designed as an anchor point to support a maximum of 1 PFAS when utilized for fall protection applications. The structure to which the anchor is attached must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. (22 kN) or be designed with a safety factor of two to one. Maximum allowable free fall is based on the connector used.

Restraint: Safewaze Anchors are authorized for use in Restraint applications. The structure to which the anchor is attached 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). For Restraint applications, the allowable attachment points to the harness are Dorsal, Front/Sternal, Side, and Shoulder D-rings.

Work Positioning: Safewaze Anchors are authorized for use in Work Positioning applications. Work Positioning allows a worker to be supported during suspension while freeing both hands to conduct work operations. The structure to which the Anchor is attached must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. Maximum allowable free fall is 2 ft. For positioning applications, the allowable attachment points to the harness are the Side D-rings.

Rescue/Confined Space: Safewaze Anchors are authorized for use in Rescue/ Confined Space applications. Rescue systems are utilized to safely recover a worker from a confined location or after exposure to a fall. Composition of rescue systems can vary based upon the type of rescue involved. The structure to which the anchor is attached must withstand loads applied in the directions permitted by the system of at least 3,100 lbs. NO free fall is permitted for rescue scenarios. For confined space scenarios, maximum allowable free fall is based on the PFAS used. For these applications, the allowable attachment points to the harness are Dorsal, Front/Sternal, and Shoulder D-rings.

▶ 8.0 PRODUCT SPECIFICATIONS

- Capacity: 1 user for single point anchor use, 2 users per span for HLL use
- Single Point Anchorage Connector with 360° Swivel D-ring.
- Minimum Breaking Strength (MBS): 5,000 lbs. (22kN)
- Item Weight: 24.9 lbs. (11.3 kg)
- The anchor adjusts from 24" to 40" (61-101.6 cm) across roof panels.
- Roof Gauge: Minimum 26 roof gauge required for installation of anchor.
- Includes: (2) aluminum clamps with (12) stainless steel set screws each.
- Related Products:
  - » (12) Standing Seam Nylon-Tipped Set Screws (025-4127)
  - » (12) Standing Seam Steel Set Screws (025-4128)
  - » Replacement Standing Seam HLL Anchor Clamp (025-4140)

COMPONENT MATERIALS	
Anchor	Powder Coated Steel, Stainless Steel
Clamps	Aluminum, Stainless Steel

▶ 9.0 FALL CLEARANCE

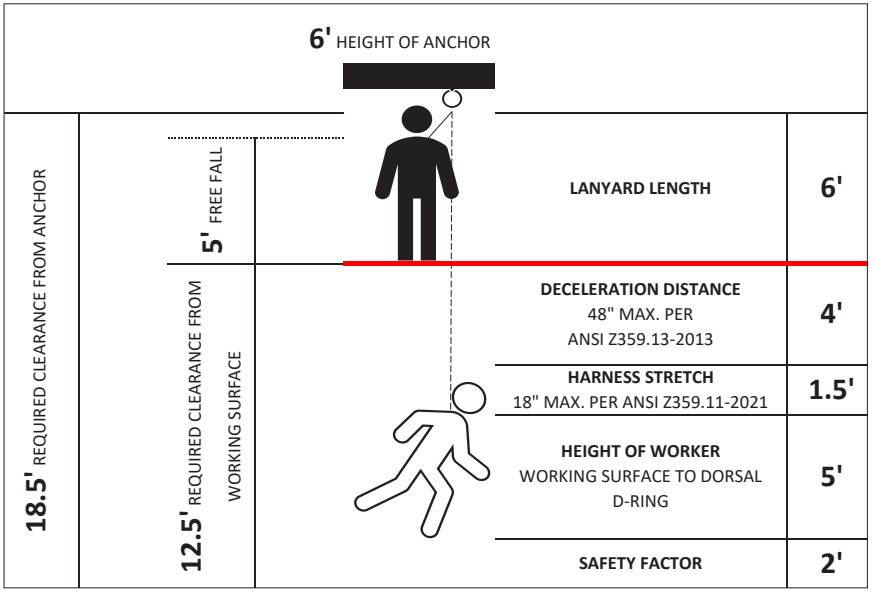
Always select an SRL/lanyard and anchor point location that limits free fall and swing fall as much as possible. Refer to the chosen PFAS system manuals for information on fall clearance. A free fall of more than 6 ft. could cause excessive arrest forces that could result in serious injury or death.

- **Fall Clearance**: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for all applicable factors. A Competent Person must reference the entire system's components to calculate Fall Clearance.

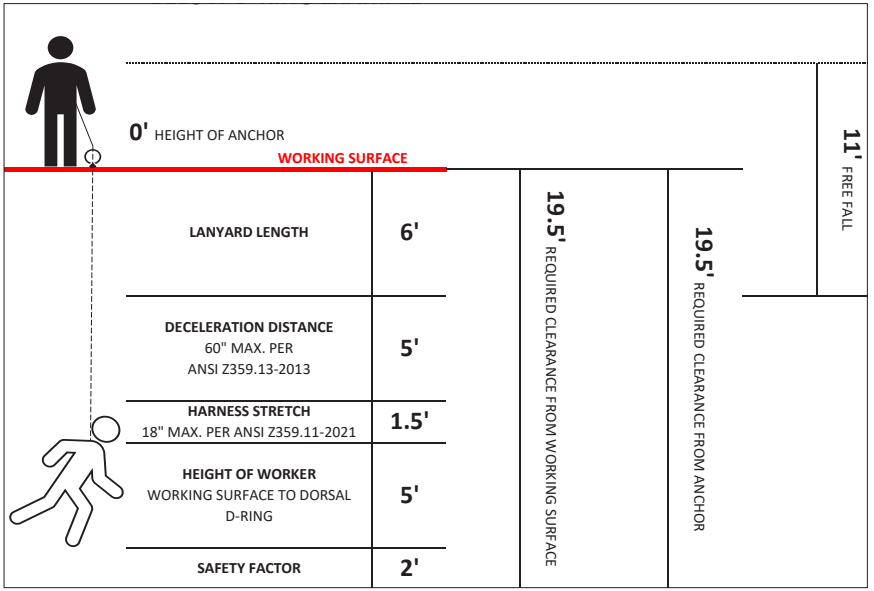
THE FOLLOWING DIAGRAMS ARE EXAMPLES ONLY.

Note: Numbers used in these examples are based on ZERO offset and setback with the anchor directly overhead or below, to represent an in-line Fall Clearance calculation. Consult with a Competent Person when working in different scenarios and when using non-Safewaze equipment.

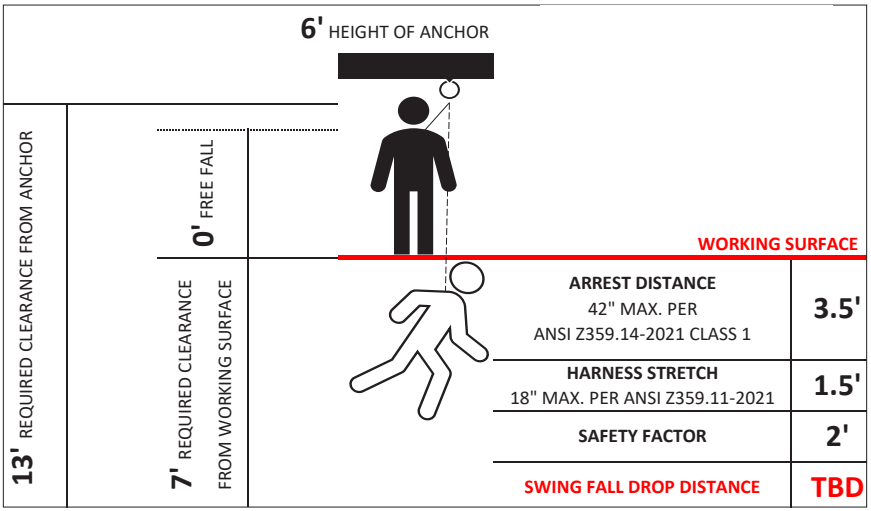
6' FREE FALL LANYARD (OVERHEAD) EXAMPLE



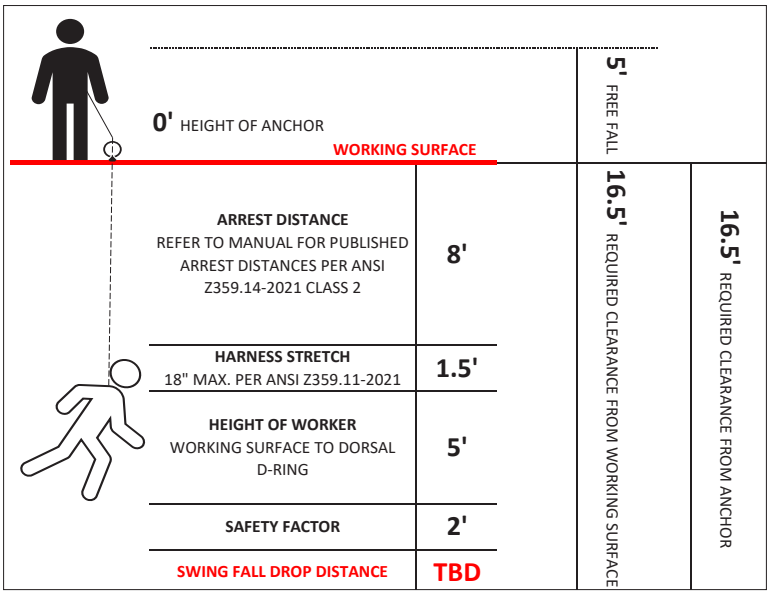
12' FREE FALL LANYARD (BELOW D-RING) EXAMPLE



CLASS 1 (OVERHEAD) EXAMPLE

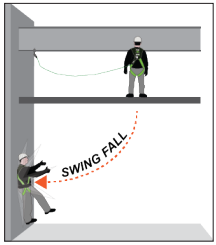


CLASS 2 (BELOW D-RING) EXAMPLE



- **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, or 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. Ensure a Competent Person includes swing fall in calculations if the hazard exists.

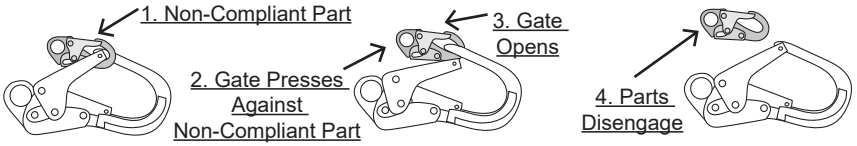
SWING FALL:



10.0 COMPATIBILITY OF CONNECTORS

- Safewaze equipment is designed for, and tested with, associated Safewaze components or systems. If substitutions or replacements are made, ensure all components meet the applicable ANSI requirements. Read and follow manufacturer's instructions for all components and subsystems in your PFAS. Not following this guidance may jeopardize compatibility of equipment and possibly affect the safety and reliability of the system.
- Connectors are compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented.
- Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22 kN).
- Connectors must be compatible with the anchorage or other system components.
- Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage.
- Connectors must be compatible in size, shape, and strength.
- Self-locking snap hooks and carabiners are required by OSHA guidelines.
- Some specialty connectors have additional requirements. Contact Safewaze if you have any questions about compatibility.

UNINTENTIONAL DISENGAGEMENT:



Using a connector that is undersized or irregular in shape (1) to connect a snap hook or carabiner could allow the connector to force open the gate of the snap hook or carabiner. When force is applied, the gate of the hook or carabiner presses against the non-compliant part (2) and forces open the gate (3). This allows the snap hook or carabiner to disengage (4) from the connection point.

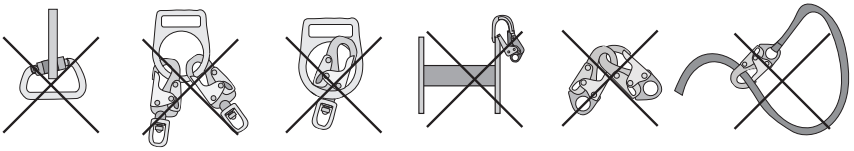
▶ 11.0 MAKING CONNECTIONS

Snap hooks and carabiners used with this equipment must be double locking and/or twist lock. Ensure all connections are compatible in size, shape, and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

Safewaze connectors (hooks, carabiners, and D-rings) are designed to be used only as specified in each product's manual. See figure below for examples of inappropriate connections. Do not connect snap hooks and carabiners:

- To a D-ring to which another connector is attached.
- In a manner that would result in a load on the gate (with the exception of tie-back hooks).
- In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.
- To each other.
- By wrapping the web lifeline around an anchor and securing to lifeline, except as allowed for tie-back models.
- To any object which is shaped or sized in a way that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- In a manner that does not allow the connector to align properly while under load.

INAPPROPRIATE CONNECTIONS:



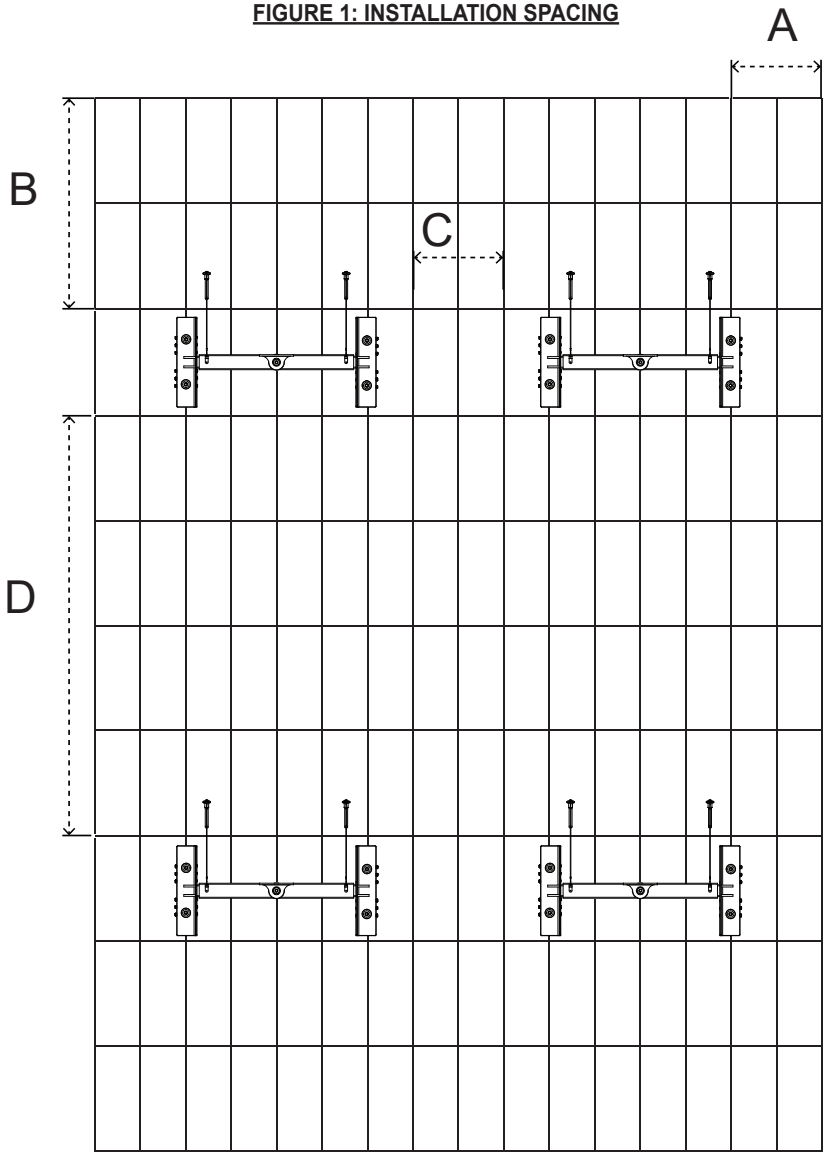
Large throat snap hooks must not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates, unless the snap hook complies with ANSI Z359.1-2007 or ANSI Z359.12 and is equipped with a 3,600 lb. (16 kN) gate.

▶ 12.0 PRIOR TO INSTALLING THE ANCHOR

Prior to the installation of the anchor, a Competent Person must determine that the installation location is capable of supporting intended loads on the anchor.

Additionally, reference Figure 1 for spacing requirements when installing the anchor. Use Figure 2 to ensure the anchor is compatible with the standing seam profile before installation.

FIGURE 1: INSTALLATION SPACING



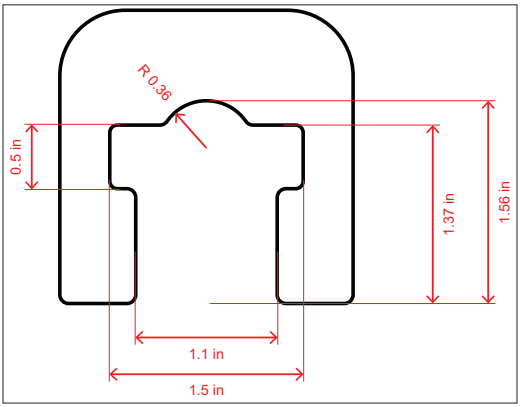
A: The anchor must be installed at least two panel section widths away from any roof edge.

B: The anchor must be installed at least two panel section lengths away from any roof edge.

C: If installing more than one anchor, the anchor must be installed at least two panel section widths away from any other installed anchor.

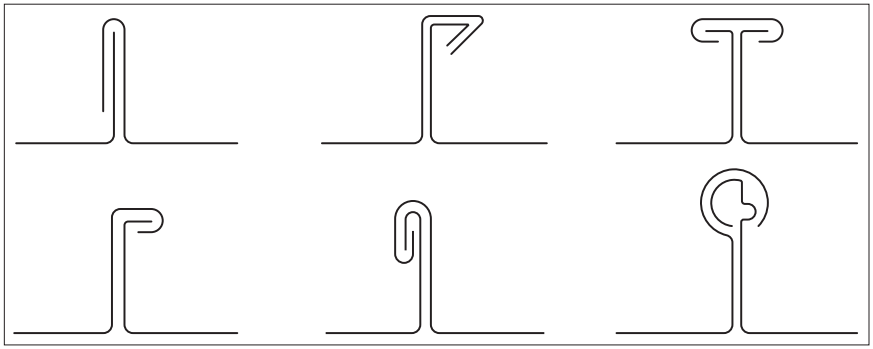
D: If installing more than one anchor, the anchor must be installed at least four panel section lengths away from any other installed anchor.

FIGURE 2: STANDING SEAM PROFILE COMPATIBILITY DIMENSIONS



See Pages 22-28 for a noncomprehensive list of standing seam panels by make and model. Always ensure the standing seam panel dimensions and specifications are within the allowable dimensions (above) of the anchor before installation. Refer to Figure 3 for standing seam style variations.

FIGURE 3: STANDING SEAM STYLES



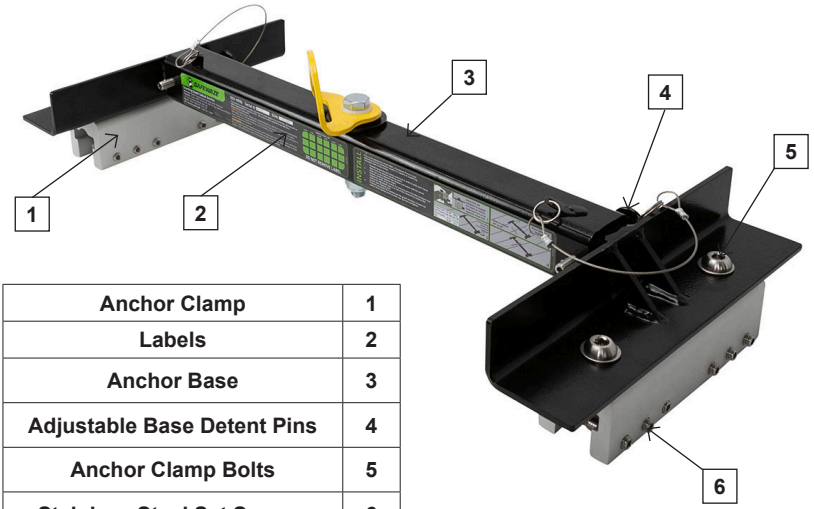
The anchor must **only** be installed to standing seams that have an adjoining panel on both sides and have been professionally seamed and installed. The anchor cannot be installed on standing seams that have not been seamed or do not have an adjoining panel on both sides.

▶ 12.0 INSTALLATION OF THE STANDING SEAM HLL ANCHOR

There are two methods to install the anchor to the standing seam panels. Choose the method that works best for each specific installation location's needs/limitations.

Refer to Figure 4 for the anchor's component part names during installation.

FIGURE 4: ANCHOR COMPONENTS



Anchor Clamp	**1**
Labels	**2**
Anchor Base	**3**
Adjustable Base Detent Pins	**4**
Anchor Clamp Bolts	**5**
Stainless Steel Set Screws	**6**

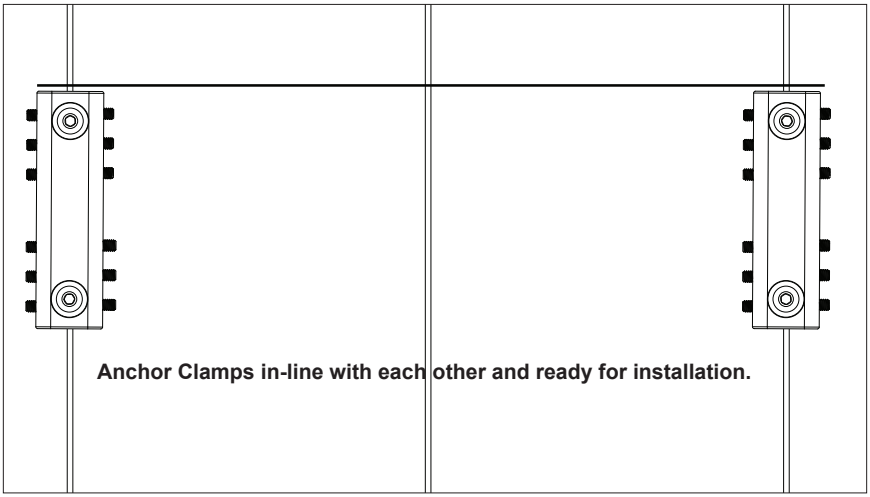
Installation Method #1: Install Anchor Clamps to standing seam first.

1. Place the Anchor Clamps on two standing seam panels. The Anchor Clamps must be in-line with each other (Figure 5). The Anchor Clamps cannot be installed onto just one individual panel. The anchor must span two panels when the Anchor Base is installed onto the Anchor Clamps.
2. Make sure the channel of the Anchor Clamp is centered over the seam and that its base is flush against the panel. Do not continue installation if the Anchor Clamps do not sit flush against the standing seam panel base (Figure 6).
3. Torque the Stainless Steel Set Screws on both Anchor Clamps to 7.5 ft-lbs.* using the sequence shown in Figure 7.

   ***Note:** If using Nylon-tipped set screws (sold separately as part number 025-4127), follow the same sequence but torque to 15 ft-lbs.
4. Repeat the torque sequence on both Anchor Clamps a second time.
5. Attach the Anchor Base to the Anchor Clamps. The leg spacing of the Anchor Base can be adjusted based on the standing seam panel's dimensions. Torque the four Anchor Clamp Bolts to 20 ft.-lbs (Figure 8).
6. Once properly installed*, the user may attach a complete and compatible PFAS to the D-ring connection point on the anchor.

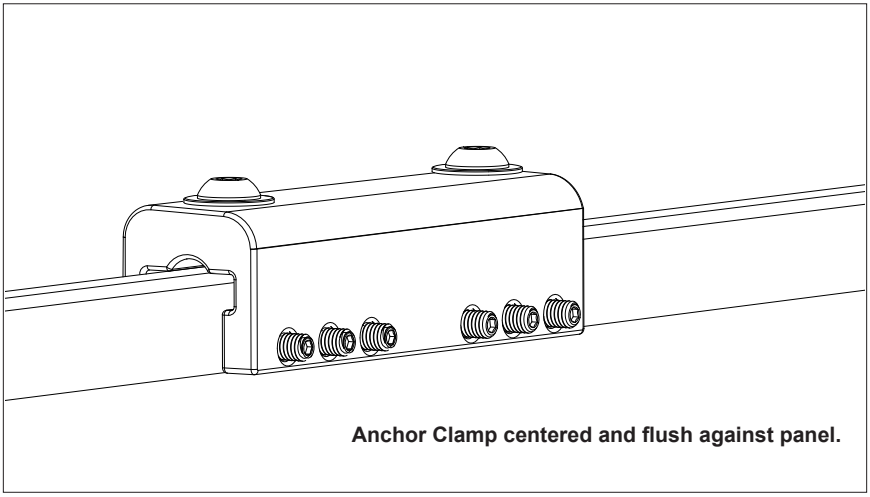
   ***Note:** Prior to every use, the torque procedures for both the Stainless Steel Set Crews and Anchor Clamp Bolts must be repeated.

FIGURE 5:



Anchor Clamps in-line with each other and ready for installation.

FIGURE 6:



Anchor Clamp centered and flush against panel.

FIGURE 7:

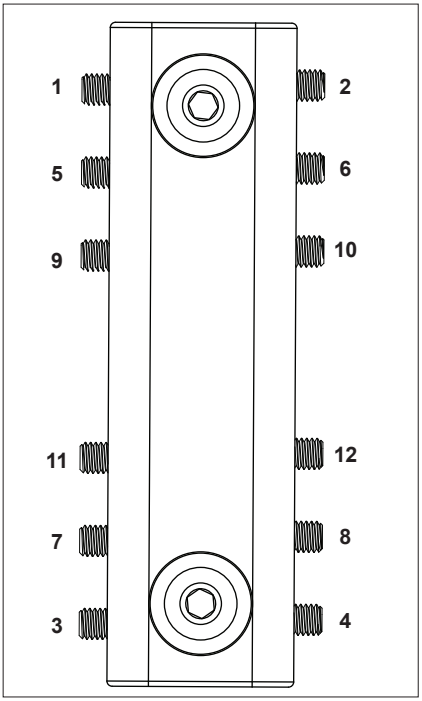
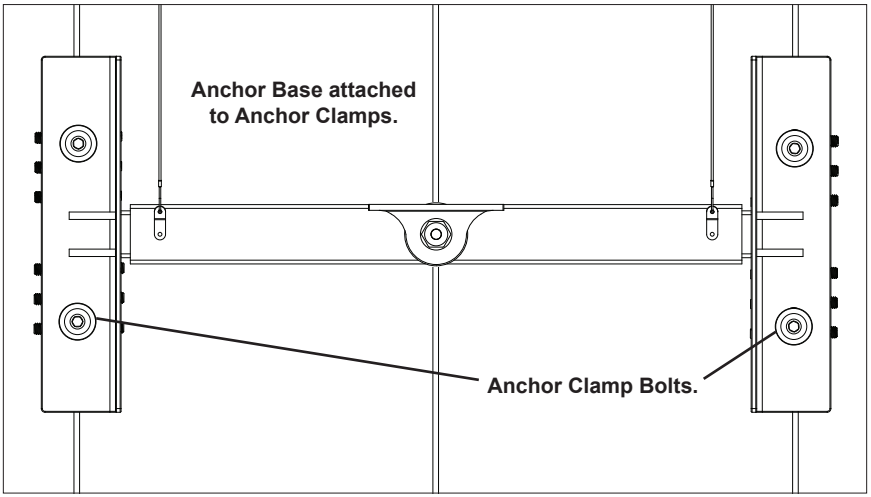


FIGURE 8:



Installation Method #2: Install Anchor Clamps to Anchor Base first.

1. Align the Anchor Clamps to the holes on the Anchor Base. Torque the four Anchor Clamp Bolts to 20 ft.-lbs (Figure 9).

2. Center the anchor on the standing seam panel. The leg spacing of the Anchor Base can be adjusted based on the standing seam panel's dimensions. The anchor must span two panels. Make sure the channel of the Anchor Clamp is centered over the seam and that its base is flush against the panel. Do not continue installation if the Anchor Clamps do not sit flush against the standing seam (Figure 10).

3. Torque the Stainless Steel Set Screws on both Anchor Clamps to 7.5 ft-lbs.* using the sequence shown in Figure 11.

> ***Note:** If using Nylon-tipped set screws (sold separately as part number 025-4127), follow the same sequence but torque to 15 ft-lbs.

4. Repeat the torque sequence on both Anchor Clamps a second time.

5. Once properly installed*, the user may attach a complete and compatible PFAS to the D-ring connection point on the anchor.

> ***Note:** Prior to every use, the torque procedures for both the Stainless Steel Set Crews and Anchor Clamp Bolts must be repeated.

FIGURE 9:

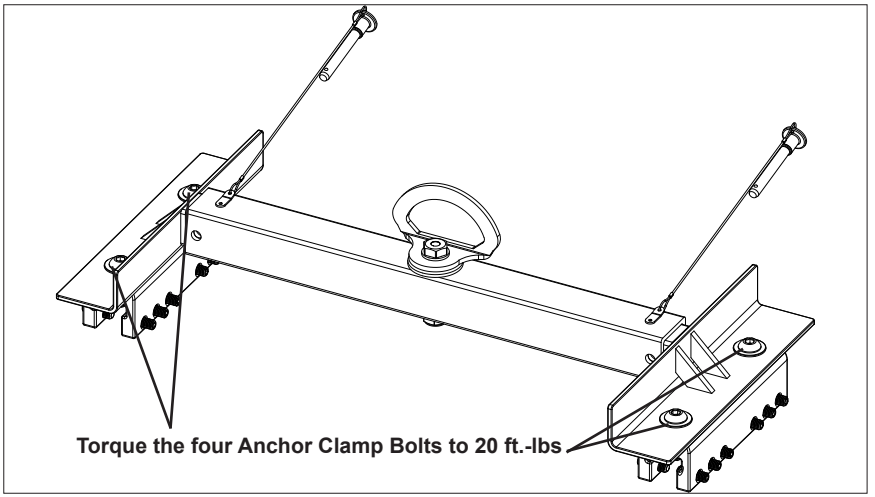


FIGURE 10:

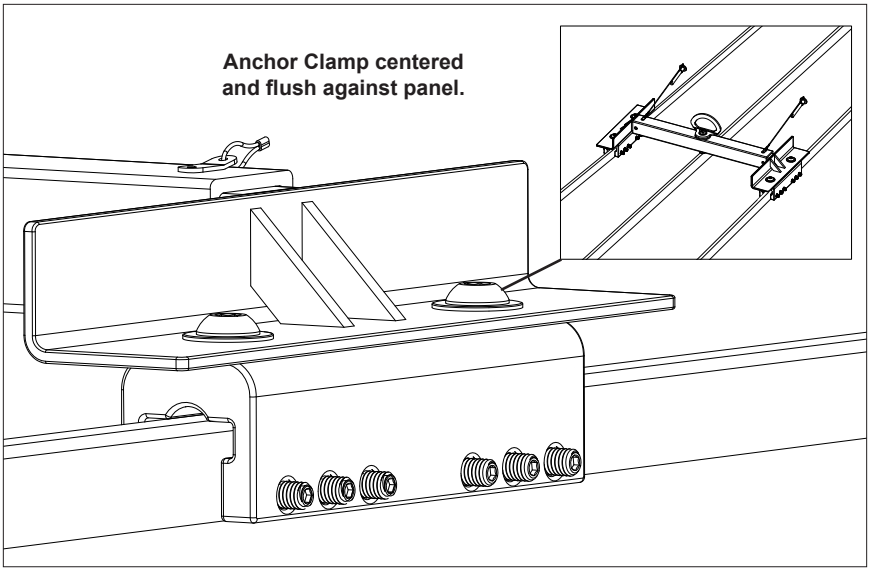
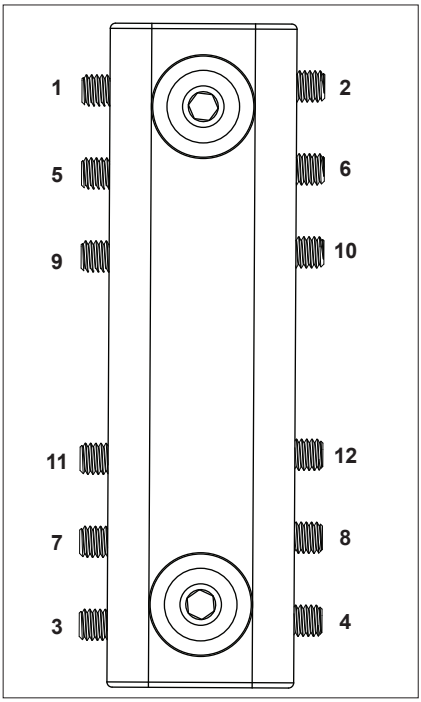


FIGURE 11:



▶ 13.0 INSPECTION

The user must keep instructions available for reference and record the date of first use on Page 2.

The user must immediately remove the system from service if defects or damage are found, or if exposed to forces of fall arrest.

Work Area:

- Inspect the work area to ensure the location is free of any damage including, but not limited to, debris, cracking, rot, decay, structural deterioration, rust, and any hazardous materials.
- A Competent Person must determine that the installation location to be utilized will support the intended loads.

Frequency:

- A Competent Person, other than the user, must inspect the Standing Seam Anchor at least once annually.
- While conducting inspections, the Competent Person must consider all applications and hazards that the equipment may have been subjected to while in use.
- Competent Person inspections must be recorded in the Inspection Log included in this manual (Page), or on the inspection table labels on each product individually. The Competent Person must place their initials in the block which corresponds with the month and year that the inspection is performed. All individual labels on the equipment will be initialed in the same manner.

INSPECTION FREQUENCY:

Type of Use	Application Examples	Conditions of Use	Inspection Frequency by Competent Person
Infrequent to Light	Rescue and Confined Space, Factory Maintenance	Good Storage Conditions, Indoor or Infrequent Outdoor Use, Room Temperature, Clean Environments	Annually
Moderate to Heavy	Transportation, Residential Construction, Utilities, Warehouse	Fair Storage Conditions, Indoor and Extended Outdoor Use, All Temperatures, Clean or Dusty Environments	Semi-Annually to Annually
Severe to Continuous	Commercial Construction, Oil and Gas, Mining	Harsh Storage Conditions, Prolonged or Continuous Outdoor Use, All Temperatures, Dirty Environment	Quarterly to Semi-Annually

Directions:

- Prior to each use, inspect the anchor for possible deficiencies including, but not limited to, missing parts, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, and missing or

illegible labels. Inspect all components of the device including the base, clamps, bolts, and setscrews.

- Prior to each use, the user must inspect and verify that each individual component (Figure 4) of the anchor is safe for use:
    1. Inspect the anchor for bending or wear.
    2. Ensure the and setscrews, adjustable leg detent pins, and all hardware are present.
    3. Confirm the bolts are tight.
    4. Re-torque the clamps.

▶ 14.0 MAINTENANCE

Repairs:

Only Safewaze, or entities authorized in writing by Safewaze, may make repairs to Safewaze fall protection equipment.

Cleaning:

The anchor can be cleaned with water and mild soap. The user should remove all dirt, possible corrosives, and contaminants from the system prior to, and after, each use. Never use any type of corrosive substance to clean the system.

Excess water should be blown out with compressed air. Hardware can be wiped off with a clean, dry cloth. Do not store system if wet or damp. Allow equipment to fully dry before being stored.

Storage:

Prior to installation, store the anchor in a cool, dry area where it will not be exposed to extreme light, extreme heat, excessive moisture, or possibly corrosive chemicals or materials.

Lifespan:

The working life of the anchor is determined by work conditions, care, and inspection provided. So long as the system and all components pass inspection, it may remain in service.

Disposal:

Dispose of the anchor if inspection reveals an unsafe or defective condition. If damaged and unserviceable, the system should be destroyed so as not to allow accidental re-use.

▶ 15.0 LABELS

▶ 16.0 STANDING SEAM INFORMATION

Disclaimer: This is a reference-only, noncomprehensive list of standing seam panels by make and model. Safewaze does not have control over the manufacturing, tolerances, specifications, and variations of these listed panels. Always verify the standing seam panel dimensions and specifications are within the allowable dimensions (Figure 2) of the anchor before installation.

MANUFACTURER:	PANEL TYPE:
A&S	BattenLok HS
A&S	SuperLok
A&S	DoubleLok
A&S	Ultra-Dek
A&S	CFR 30", 36", 42"
A&S	DuraSeal Seam/DuraSeal Snap
AB Martin Roofing	ABSeam 19.5
AB Martin Roofing	ABM 1" Nail Strip
ACI Metal Roofing	SnapLok
ACI Metal Roofing	Stratoshield
ACI Metal Roofing	UltraLok
AEP Span	Design Span hp
AEP Span	Span Lok
AEP Span	SpanSeam
AEP Span	Multilok
AEP Span	Skyline / Skyline hp
AEP Span	Snap Seam
AEP Span	Sterling Roof System
AEP Span	High Seam
Agway Metals	AR Standing Seam, NS, SL
Alcan	Snap Lock 1” and 1.5”
Alcan	Mechanical Lock 1” & 1.5”
All Weather Insulated Panels	SR Series (Single Fold)
American Buildings by Nucor	Seam-Loc
American Buildings by Nucor	Loc/Seam/Loc Seam 360
American Buildings by Nucor	Standing Seam II
American Buildings by Nucor	Standing Seam 360
American Construction Metals ACM	Kenloc, Stayloc, Mechloc
AMS-Arch. Metal Solutions	ArmorLock/SnapLock/ProLock
Architectural Building Components/McElroy	138T, 238T
Architectural Building Components/McElroy	Permaseam Interlock
Architectural Building Components/McElroy	Maxima ADV
AMSI-Architectural Metal Specialties, Inc	Peterson Tite-Loc
AMSI-Architectural Metal Specialties, Inc	Peterson Tite-Loc HS

MANUFACTURER:	PANEL TYPE:
AMSI-Architectural Metal Specialties, Inc	Peterson Tite-Loc Plus
ASP-Arch. Sheetmetal Prod.	SL Series/ML Series/MLC Series
ATAS	Dutch Seam
ATAS	Field-Lok FLL 1", 1.5"
Bax Steel	Bax-Lock
BC Steel Buildings	BCL-24-SD
BC Steel Buildings	BCL-24-MS
Behlen Building Systems	Roll-Lock/Triple-Lock/Quadri-Lock
Behlen Building Systems	ZL-24/Triple-Lock/Quadri-Lock
Bemo	Bemo Roof
Berridge	High Seam Tee-Panel
Berridge	Cee-Lock
Berridge	Zee-Lock
BHP	Zip Rib
Bridger Steel	Tru-Snap 1", 1.5"
Bridger Steel	Nail Strip 1" and 1.5"
Bryer Company	TBC-Ultra
Bryer Company	TBC-Superseam
Bryer Company	TBC-SuperCurve
Butler	MR-24
Butler	Genesis 360
Butler	CMR-24
Butler	VSR II
Carlisle Syntec	CM 175SL/CM 150SL Snap Lock
Carlisle Syntec	CM 200S/CM 150 SS
CBC Steel Buildings by Nucor	MS-24
CBC Steel Buildings by Nucor	SS-24
Ceco Buildings	Double-Lok
Ceco Buildings	BattenLok HS
Ceco Buildings	SuperLok
Ceco Buildings	CRP / CLP / CXP
Central States Manufacturing	Central Snap
Central States Manufacturing	Central Span
Central States Manufacturing	Central Seam Plus
Central States Manufacturing	Central Loc
Central Texas Metal Roofing Supply	ShurLoc 150
Central Texas Metal Roofing Supply	SpanLoc 100, 150
Centria	SRS-2 / SRS-3
Centria	SDP Series
Chief Buildings	MSC Panel

MANUFACTURER:	PANEL TYPE:
Chief Buildings	MVF/MVP
Chief Buildings	STC Panel
Classic Roofing Systems	CR-S 25
Classic Roofing Systems	CR-S 38
Coated Metals Group CMG	Ultra-Seam
Coated Metals Group CMG	Ultra-Snap
Coated Metals Group CMG	Ultra-Flange 1" and 1.5"
Construction Metals, Inc.	Barrier Roof
Construction Metals, Inc.	Sur-lock
Corle Building Systems	Seam-Lok
Corle Building Systems	Verticle-Lok
Corle Building Systems	Snap-Seal
Copper Sales	UC-3
Copper Sales	UC-4
Copper Sales	UC-6
Custom Bilt Metals	CB-150
Custom Bilt Metals	CB-100
Custom Bilt Metals	SL-100
Custom Bilt Metals	SLZ 1000/1500
Dean Steel Buildings, Inc.	Pro Seam and Pro Lok
Dimensional Metals, Inc.	Tee-Lock TL25
Dimensional Metals, Inc.	Span-Lock SL25 and SL20
Dimensional Metals, Inc.	Inter-Lock IL20
Dimensional Metals, Inc.	Double-Lock DL 15
Dimensional Metals, Inc.	Snap-On-Seam SS10 and SS15
Dimensional Metals, Inc.	Nail-Strop NS10 & NS15
Drexel Metals	100SS and 150SS
Drexel Metals	200S
Drexel Metals	100NS
Drexel Metals	150SL & 175S Snap Lock
Drexel Metals	450, 450SL, 550S
Drexel Metals	DMC 210S Armco Type
Englert	A1000, A1100
Englert	A1300, A1301, A1500
Englert	Everloc Nailstrip
Englert	EverSeam
Fab Tech, Inc.	Seam-Lok
Fab Tech, Inc.	Snap-Seal
Fabral	1-1/2" SSR
Fabral	Stand 'N Seam

MANUFACTURER:	PANEL TYPE:
Fabral	Powerseam
Fabral	Thin Seam & Slim Seam
Follansbee Steel	1" (25mm) DF (TCS)
Firestone	Una-Clad, UC-3, UC-4, UC-6, UC-14
Galvak, S.A. De C.V.	Galvalok I
Galvak, S.A. De C.V.	Galvalok II
Garco Building Systems	BattenLok HS
Garco Building Systems	SuperLok
Garco Building Systems	LokSeam
Garco Building Systems	Ultra-Dek
Garco Building Systems	Double-Lok
Garland	R-Mer Loc
Garland	R-Mer Span
Imetco	Series 300 1" Batten
Imetco	PermLok
Imetco	TwinLok
Inland Buildings	TS-324
Inland Buildings	VS-216
Inland Buildings	SS20
Inland Buildings	IN-LOC
Interlock Roofing	Nailstrip
KalZip	50 Series
KalZip	65 Series
Kingspan	KingZip 1020
Kirby Building Systems	KLM 2100, KLS 2100
Kirby Building Systems	Roof-Lok/Roof-Lok Plus
Knudson Mfg	KR-18
Knudson Mfg	KR-20
Knudson Mfg	KR-24
Laura Star-Roof. BV	SpanLock
Laura Star-Roof. BV	Artlock
Lysaght	Longline 305
MBCI	BattenLok/BattenLok HS
MBCI	DoubleLok/LokSeam
MBCI	SuperLok/Ultradek
McElroy Metal	138T/238T
McElroy Metal	Instaloc
McElroy Metal	MasterLok-90/FS
McElroy Metal	Maxima
McElroy Metal	Medallion-Lok

MANUFACTURER:	PANEL TYPE:
McElroy Metal	Meridian
Merchant & Evans	Zip Rib
Merchant & Evans	Zip-Lok
Merchant & Evans	#305
Merchant & Evans	#306
Mesco Building Solutions	Double-Lok/Ultra-Dek
Metal Sales	Magna-Loc, Magna-Loc 180, Curved Magna-Loc
Metal Sales	Vertical Seam
Metal Sales	Seam-Loc
Metal Sales	Snap-Loc
Metal Sales	Image II
Metal Sales	T-Armor
Met-Fab by Drexel	Historic
Met-Fab by Drexel	MetFab III
Met-Fab by Drexel	Snap-On 400
Met-Fab by Drexel	Snap-On 550 and Snap-On 675
Metl-Span	CFR
Morin by Kingspan	SLR
Morin by Kingspan	SRR
Morin by Kingspan	SWL
Mid-West by NCI	BattenLok/Double-Lok
Mid-West by NCI	SuperLok/Ultra-Dek
New Tech Machinery	SS100/SS150/SS200/SS210A/SS450(sl)
New Tech Machinery	SS450/SS450SL/SS550/SS675
New Tech Machinery	FF 100, 150
North Star Metals	Loc Star
North Star Metals	Snap Star
North Star Metals	NS-18
Nu-Ray Metals	NRM 1000/NRM 1750/NRM 2000
Nucor Building Systems	CFR/SR2/VR16 II
OC Metals	SMI 1.5
OC Metals	SMI Mechanical 450
Pac-Clad by Petersen Aluminum	Snap-Clad
Pac-Clad by Petersen Aluminum	Tite-Loc/Tite-Loc HS/Tite-Loc Plus
Pac-Clad by Petersen Aluminum	Snap-On Standing Seam
Pac-Clad by Petersen Aluminum	Hi Snap On
Pac-Clad by Petersen Aluminum	Redi-Roof/Edge-Loc
Patterson Aluminum Corp	Snap Clad
Premier Metals	Standing Seam 1.5
Rigid Global Buildings	Hi-Tech

MANUFACTURER:	PANEL TYPE:
Rigid Global Buildings	Platinum
Robertson Building Systems	BattenLok, Curved BattenLok, DoubleLok
Robertson Building Systems	LokSeam, SuperLok, UltraKeck
Robertson Building Systems	Starshield-SSR
Schlebach	1 Inch Nail Strip Panel
Schlebach	1.5 Nail Strip
Schulte Building Systems	TS-324
Schulte Building Systems	VS-216
Star Building Systems	Starshield
Steel Span, Inc.	Trapazoidal
Steel Span, Inc.	Architectural
Steel Tile	Snap Seam 1.5"
Steel Tile	Nail Strip 1.5"
Steel Tile	Mechanical Lock 1.5"
Steelway Building Systems	RTL-24
Taylor Metals	Easy Lock
Taylor Metals	Versa-Span
Taylor Metals	MS 150 / MS 200
Taylor Metals	Clip Lock
Tremco	TremLock VP
Tremco	T-238
Tremco	TremLock SL and LSP
Triad Corrugated Metal	Snap Loc
Triad Corrugated Metal	Nailstrip
Triad Corrugated Metal	Mechanical
U.S. Metals	US-150
Ultra Seam, Inc.	Ultra Seam US-150C, 150CL, 150LS
Ultra Seam, Inc.	Ultra Seam US-100NS Nail Strip
Una-Clad	Una-Clad UC-3, UC-4, UC-6, UC-14
Union Corrugating Company	Advantage Lok & Advantage-Lok II
Union Corrugating Company	SL150
Union Corrugating Company	ML150
Union Corrugating Company	Guardian 1 / II / Lok
Union Corrugating Company	Sure-Lok / Supreme-Lok
Varco Pruden	SSR
Varco Pruden	HWR
Varco Pruden	SLR
Vic West	Prestige
Vic West	Tradition-100
Vic West	TSR

MANUFACTURER:	PANEL TYPE:
Vic West	Tradition 150-4
Whirlwind Building Systems	Weather Lok-16
Whirlwind Building Systems	Weather Snap-16
Whirlwind Building Systems	Super Seam II/Super Seam Plus
Zamil Steel Industries	Max Seam
Zimmerman Metals, Inc.	SL-1500, SL1750, SLC1000
Zimmerman Metals, Inc.	SS1500, SS2000, SS2500, TSS2500

▶ 17.0 SAFEWAZE ANNUAL INSPECTION FORM

Inspection Date:	Inspector:	Pass/Fail:	Comments/ Corrective Action:

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