

User Instructions

Suretyman™ Anchorage Sling

**Model Number / Numero de modelo /
Numero de modele**



Doc./Mat.: 10051419/05
Print Spec.: 10000005389 (F)
CR 800000032963



WARNING!

National standards and state, provincial and federal laws require the user to be trained before using this product. Use this manual as part of a user safety training program that is appropriate for the user's occupation. These instructions must be provided to users before use of the product and retained for ready reference by the user. The user must read, and understand (or have explained), and heed all instructions, labels, markings and warnings supplied with this product and with those products intended for use in association with it. **FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.**



The Safety Company

1000 Cranberry Woods Drive
Cranberry Township, PA 16066
USA
Phone 1-800-MSA-2222
Fax 1-800-967-0398

For your local MSA contacts please go to our website www.MSAafety.com

1 Safety Regulations

1.1 Correct Use

The Suretyman Anchorage Sling functions as an anchorage connector for fall arrest, travel restraint, or rescue applications. The sling is designed to be wrapped around an anchorage structure of suitable size, shape, and strength to support the intended load.

An anchorage sling is used as a link between the anchorage structure and a connector, such as a locking carabiner on a fall arrest lanyard. The Suretyman Anchorage Sling provides an anchorage connector for a wide variety of fall protection needs. Applications include most fall arrest systems, restraint systems, and rescue systems. Suretyman Anchorage Slings are manufactured of abrasion resistant nylon webbing and are available in several different lengths to suit various anchorage structures. The Suretyman Anchorage Sling is intended for use by one person.

1.2 Compliance

The product may comply with:

- ANSI Z359.18, Type A and / or;
- OSHA requirements

See product label for specific compliance notifications.

Anchorage connectors labeled with ANSI Z359.18 have been tested in compliance with the requirements of ANSI/ASSE Z359.7.



CAUTION!

ANSI compliance and testing covers only the hardware and does not extend to the anchorage and substrate to which the anchorage connector is attached.

1.3 Standards

- 1) When used according to instructions will exceed the required minimum breaking strength of 5000 lbs (22.2 kn)
- 2) Only one (1) person shall use the Suretyman Anchorage Sling at one time. This anchor sling can also be used with approved systems.
- 3) An approved anchorage structure shall be secured and capable of supporting a minimum 5000 lbs. (22 kN) per user.
- 4) The recommended MSA connector for the anchor sling is a MSA Carabiner or equivalent connector meeting ANSI Z359.12.
- 5) The Suretyman Anchorage Sling is terminated with a stitched webbing overlap.
- 6) Suretyman Anchorage Slings are intended to be used in a basket configuration only. The two lengths of sling in this configuration must be of equal length to ensure an even distribution of a load.
- 7) Remove the Suretyman Anchorage Sling from service immediately if the product has seen fall arresting service.

1.4 Safety and Precautionary Measures



WARNING!

- ▶ Do not tie the anchorage sling in a knot.
- ▶ Avoid using anchor slings on an anchorage structure which has excessively sharp edges or an extremely small circumference.
- ▶ The angle between the two loop ends below the anchorage structure must not exceed 45°.
- ▶ Do not connect a snap hook directly into the end loops of the anchorage sling. When not used in the choker configuration, an approved connector, such as a carabiner or shackle, must be used to link the two loop ends together.
- ▶ DO NOT exceed the allowable free fall distance or exceed the maximum fall arrest forces as specified by governing standards or subsystem components.
- ▶ The anchorage to which the Suretyman Anchorage Sling is attached must be rated in the direction of intended use. See sections 2.1 "Anchorages and Anchorage Connectors" and 3 "Use" for details on anchorage strength and loading details.
- ▶ When installing or removing the Suretyman Anchorage Sling, limit exposure to fall hazards. A separate independent fall arrest system may be required.
- ▶ Ensure that fall clearance is sufficient to meet governing standards or subsystem component requirements.
- ▶ Prevent swing falls and impact with objects in or adjacent to the fall path. Always remove obstructions below the work area to ensure a clear fall path. Keep work area free from debris, obstructions, trip hazards, spills or other hazard which could impair the safe operation of the fall protection system. DO NOT use the MSA Suretyman Anchorage Sling unless a qualified person has inspected the workplace and determined that identified hazards can neither be eliminated nor exposures to them prevented.
- ▶ Work directly under the anchorage/anchorage connector at all times. A full body harness is the only acceptable body holding device that can be used in a fall arrest system.
- ▶ DO NOT rely on feel or sound to verify proper snaphook or carabiner engagement. Ensure that gate and keeper are closed before use.
- ▶ If the MSA Suretyman Anchorage Sling is damaged or is subjected to fall arrest forces or impact forces, it must be immediately removed from service and marked as "UNUSABLE" until it has been destroyed.
- ▶ DO NOT leave the MSA Suretyman Anchorage Sling installed in environments which could cause damage or deterioration to the product. Refer to sections 4 "Care, Maintenance and Storage" and 5 "Inspection" for care and inspection details. Do not leave unattended loads on the MSA Suretyman Anchorage Sling.
- ▶ DO NOT use where lanyard or shock absorber may be exposed to sharp or abrasive edges or sheared, expanded metal, or frame cut steel. Sharp edges may cut a lanyard or shock absorber during a fall. Cover all sharp or abrasive edges with padding or sheathing before working above edge.

- ▶ Chemical hazards, heat and corrosion may damage the MSA Suretyman Anchorage Sling. More frequent inspections are required in these environments.
- ▶ Do not use anchor slings adjacent to moving machinery, electrical hazards, or in the presence of excessive heat, open flame or molten metal.
- ▶ DO NOT use fall arrest or rescue equipment in environments with temperatures greater than 130°F (34°C) or temperatures lower than -30°F (-34°C).
- ▶ Do not use the anchor sling near energized equipment or where contact with high voltage power lines may occur.
- ▶ Remove any surface contamination such as, but not limited to, concrete, stucco, roofing material, etc that could accelerate cutting or abrading of attached components.
- ▶ Suretyman Anchorage Slings are to be designated and used solely for approved applications.
- ▶ Unauthorized alterations, relocations, or additions to the Suretyman Anchorage Sling are not permitted.
- ▶ DO NOT alter this equipment or intentionally misuse it. DO NOT use fall protection equipment for purposes other than those for which it was designed. DO NOT use fall protection equipment for towing, hoisting or material handling.
- ▶ If PPE is resold, it is essential that instructions for use, maintenance, and periodic examination are provided in the language of destination.
- ▶ DO NOT use MSA Fall Protection products if under the influence of drugs or alcohol.
- ▶ MSA or persons or entities authorized in writing by the manufacturer, shall make all repairs to the equipment. No unauthorized repairs and/or modifications are permitted.
- ▶ **RESCUE AND EVACUATION:** The user must have a rescue plan and the means at hand to implement it. The plan must take into account the equipment and special training necessary to effect prompt rescue under all foreseeable conditions. If the rescue be from a confined space, the provisions of OSHA regulation 1910.146 and ANSI Z 117.1 must be taken into account. Although a rescue plan and the means to implement it must always be in place, it is a good idea to provide means for user evacuation without assistance of others. This will usually reduce the time to get to a safe place and reduce or prevent the risk to rescuers.

Failure to follow these warnings can result in serious personal injury or death.

1.5 Warranty

Express Warranty – MSA warrants that the product furnished is free from mechanical defects or faulty workmanship for a period of one (1) year from first use or eighteen (18) months from date of shipment, whichever occurs first, provided it is maintained and used in accordance with MSA's instructions and/or recommendations. Replacement parts and repairs are warranted for ninety (90) days from the date of repair of the product or sale of the replacement part, whichever occurs first. MSA shall be released from all obligations under this warranty in the event repairs or modifications are made by persons other than its own authorized service personnel or if the warranty claim results from misuse of the product. No agent, employee or representative of MSA may bind MSA to any affirmation, representation or modification of the warranty concerning the goods sold under this contract. MSA makes no warranty concerning components or accessories not manufactured by MSA, but will pass on to the Purchaser all warranties of manufacturers of such components. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AND IS STRICTLY LIMITED TO THE TERMS HEREOF. MSA SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Exclusive Remedy - It is expressly agreed that the Purchaser's sole and exclusive remedy for breach of the above warranty, for any tortious conduct of MSA, or for any other cause of action, shall be the repair and/or replacement, at MSA's option, of any equipment or parts thereof, that after examination by MSA are proven to be defective. Replacement equipment and/or parts will be provided at no cost to the Purchaser, F.O.B. Purchaser's named place of destination. Failure of MSA to successfully repair any nonconforming product shall not cause the remedy established hereby to fail of its essential purpose.

Exclusion of Consequential Damages Purchaser specifically understands and agrees that under no circumstances will MSA be liable to Purchaser for economic, special, incidental, or consequential damages or losses of any kind whatsoever, including but not limited to, loss of anticipated profits and any other loss caused by reason of the non-operation of the goods. This exclusion is applicable to claims for breach of warranty, tortious conduct or any other cause of action against MSA.

For additional information please contact the Customer Service Department at 1-800-MSA-2222 (1-800-672-2222).

1.6 Training

Purchasers of Suretyman Anchorage Slings must ensure that users are familiar with the User Instructions and are trained by a competent person in:

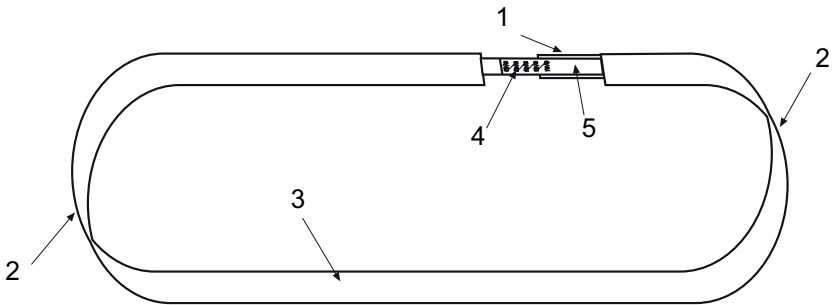
- workplace hazard identification, evaluation and control
- selection, inspection, use, storage and maintenance
- usage planning including calculation of free and total fall distance; maximum arresting force
- compatibility and selection of anchorage/anchorage connectors including connection to help prevent accidental disengagement (rollout)
- proper lanyard/harness connection locations
- evacuation and rescue planning and implementation
- consequences of improper use

For Confined Space applications:

- See OSHA 29 CFR 1910.146 and ANSI Z117.1.

Periodically (at least annually) assess effectiveness of training and determine the need for retraining or additional training. Contact MSA for training information.

2 Description




1	Label	4	Stitching
2	End Loop	5	Inner Web
3	Outer Web		

Material of Construction:	Nylon inner web with additional nylon abrasion-resistant protective outer sheath.
Minimum Breaking Strength:	5,000 pounds (22.2 kN)
Capacity:	One worker with a combined total weight of 400 pounds (181kg) including clothing, tools, and other user-borne objects.
Length:	available in various lengths; custom lengths available
Net Weight:	1.2 pounds (2.6 kg) in 6 ft version

2.1 Anchorages and Anchorage Connectors

Anchorages for personal fall arrest systems must either: (a) have a strength capable of supporting and withstanding at least 5,000 pounds (22.2 kN) in the directions permitted by the system without failure, or (b), must be certified by a professional engineer as having the required strength for fall arrest or travel restraint, as applicable. See ANSI Z359.18 for definition of certification. When more than one personal fall arrest system is attached to an anchorage, the anchorage strengths set forth in (a) and (b) must be multiplied by the number of systems attached to the anchorage. This requirement is consistent with OSHA requirements under 20 CFR 1910, Subpart F, Section 1910.66, Appendix C. Do not proceed with installation and use of the anchorage connector if an assessment of strength cannot be made.

2.2 Label

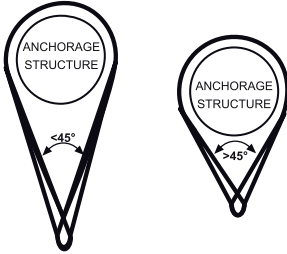
814 Rev. 2 10089778	 MSA <i>The Safety Company</i>	SURETYMAN ANCHORAGE SLING	CAPACITY: 400 lbs (181 kg) (includes person + cloths + tools) WARNINGS: Read and heed all instructions included with this product. <ul style="list-style-type: none"> - Use only with compatible anchorage and connectors. Refer to instructions for proper coupling methods. - Do not expose to sharp edges or abrasive surfaces. - Inspect for damage before each use. - Do not install where product may be exposed to electrical sources, high heat, or harsh chemicals.
	MSA The Safety Company 1000 Cranberry Woods Dr., Cranberry Twp., PA 16066 U.S.A. www.MSAsafety.com 1-800-675-2222 Fax: 1-800-967-0398 Made in U.S.A.	Model <input type="checkbox"/> Material <input type="checkbox"/> Serial Number <input type="checkbox"/> Date Made <input type="checkbox"/> Length <input type="checkbox"/> Meets Standards <input type="checkbox"/>	

3 Use

- (1) Inspect Suretyman Anchorage Sling before each use in accordance with the inspection instructions.
- (2) Ensure that the anchorage structure meets strength requirements of applicable governing regulations and the requirements of ANSI Z359.18.

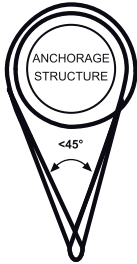
CORRECT

INCORRECT



- (3) Choose an appropriate Suretyman Anchorage Sling length for the application. The anchorage sling length chosen must be long enough to sufficiently wrap around the anchorage structure and allow for a maximum 45° angle at the connection of the two end loops

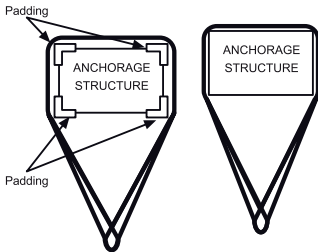
CORRECT



- (4) In situations in which a long anchorage sling is used on a small anchorage structure, it is permissible to wrap the anchor sling more than once around the anchorage structure in order to raise the height of the connection point.
CAUTION: Ensure that the maximum angle of 45° is not exceeded at the connection point.

CORRECT

INCORRECT



- (5) Adjust the Suretyman Anchorage Sling to align both end loops at an equal length below the anchor structure. When the anchorage structure has sharp edges or corners, it may become necessary to pad these edges or corners in order to maintain the integrity of the anchor sling.

- (6) Connect the two end loops of the anchorage sling using an appropriate fall arrest connector. The connector used must be in accordance with the strength requirements of applicable governing regulations and the requirements of ANSI standards. The connector should also be of sufficient diameter to properly accommodate both end loops while maintaining the integral strength of the connector.

US

For use in a choker configuration:

CORRECT



- (1) Wrap the Suretyman Anchorage Sling around the anchorage. More than one wrap may be possible on smaller anchorage structures.
- (2) Pull a loop end of the Suretyman Anchorage Sling through the loop on the other end. Cinch tight.
- (3) Verify that the Suretyman Anchorage Sling is stable and not exposed to sharp edges or other hazards. Verify that one loop end is pulled completely through the other loop end of the Suretyman Anchorage Sling and will hang freely down in the direction in which loads will be applied.

3.1 Rescue and Evacuation

The user must have a rescue plan and the means at hand to implement it. The plan must take into account the equipment and special training necessary to effect prompt rescue under all foreseeable conditions. If the rescue be from a confined space, the provisions of OSHA regulation 1910.146 and ANSI Z 117.1 must be taken into account. Although a rescue plan and the means to implement it must always be in place, it is a good idea to provide means for user evacuation without assistance of others. This will usually reduce the time to get to a safe place and reduce or prevent the risk to rescuers.

4 Care, Maintenance and Storage

Maintenance and storage of equipment shall be conducted by the users organization in accordance with MSA instructions. Unique issues, which may arise due to conditions of use, shall be addressed with MSA.

When in doubt of the method of operation, maintenance or inspection procedures, DO NOT USE the equipment.

4.1 Cleaning Instructions

Clean the Suretyman Anchorage Sling with a solution of water and mild laundry detergent. Hang to air dry. Do not speed dry with heat. Excessive accumulation of dirt, paint, or other foreign matter may prevent proper function of the Suretyman Anchorage Sling. Questions concerning Suretyman Anchorage Sling conditions and cleaning should be directed to MSA.

4.2 Maintenance and Service

Devices which are in need of or scheduled for maintenance shall be tagged as "UNUSABLE" and removed from service until maintenance is completed.

4.3 Storage

Store in a clean, dry area free from excessive heat, harmful fumes and corrosive agents.

5 Inspection

- (1) The Suretyman Anchorage Sling shall be inspected by the user before each use and additionally by a competent person other than the user at intervals of no more than one year. Detailed inspections must be recorded in the inspection log (see 5.2 "Inspection Log").
- (2) The program administrator shall maintain documentation of equipment inspections. This documentation shall include, at a minimum, the identify of the equipment, inspection date, name of the competent or qualified person conducting the inspection and the result of that inspection.
- (3) The program administrator shall set inspection criteria for the equipment. Such criteria shall equal or exceed the most restrictive of the criteria established by the ANSI Z359.18 standard or the manufacturer's user instructions. Keep inspection criteria current in relationship to changing patterns or conditions of use.
- (4) When inspection reveals defects, damage, or inadequate maintenance of the Suretyman Anchorage Sling, the Suretyman Anchorage Sling shall be permanently removed from service and replaced or undergo adequate corrective maintenance before returning to service.
- (5) Remove Suretyman Anchorage Sling from service immediately if:
 - the product has been subjected to the forces of a fall.
 - label is missing or illegible.
 - there is evidence of defects, improper function, or alterations of any portion.
 - if inspection reveals evidence of defects or damage including tears, abrasions, undue stretching, mildew/mold, missing or broken threads, chemical attack, excessive heating, excessive aging, or excessive wear.

5.1 Corrective Action

When inspection in accordance with section 5 "Inspection" reveals any of the identified conditions, the Suretyman Anchorage Sling must be immediately removed from service and marked as "UNUSABLE" until destroyed or subjected to corrective maintenance by the user's organization in accordance with this user instruction. Damage, excessive wear, malfunction, and aging are generally not repairable. If detected, immediately remove the Suretyman Anchorage Sling from use and mark it as "UNUSABLE" until destroyed. For final disposition, submit the Suretyman Anchorage Sling to a competent person who is authorized to perform Formal Inspection. If there is any question as to reparability, contact MSA or a service center authorized in writing by MSA before further use of the product.

5.2 Inspection Log

5.2.1 Inspection Log

Detailed Inspection and Maintenance		
Model Number		Date Purchased
Inspection Date	Corrective Action Taken	Maintenance Performed
Inspection Items Noted		
Approved by		
Inspection Date	Corrective Action Taken	Maintenance Performed
Inspection Items Noted		
Approved by		

For local MSA contacts, please visit us at [MSAafety.com](https://www.MSAafety.com)

Because every life has a **purpose...**