



SUPER ANCHOR SAFETY®

Maxima™ Lifeline w/Fall Arrester Instruction/Specification Manual 2017

!WARNING TO USER!
You are required to read and use the Instruction/ Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.

ENGLISH
VERSION

Fig.1

Maxima™ Lifeline Specification

5/8" (16mm) 3 strand copolymer

Min. Tensile: 10,582lb (48kN)

% Elongation: 16.5% @ 45kN

Compliance: ANSI Z359.1-07

CSA Z259.2.5 No.RMRP-POL002

Swage: Aluminum oval

Min. strength: 5,000lb (22.5kN)

Max User Wt: 340lb (154kg)

Specifications of Use:

One person use for Personal Fall Arrest System (PFAS) including tools.

Fall Arrester Function/Adjustment

The **Fall Arrester (FA)** locks onto the lifeline when a force is applied to the connector ring. Adjust position by pushing or pulling up or down on the lifeline. To remove from lifeline unlock gate.

Lifeline Part Numbers:

No.	Component
4083	Lifeline only
4084	Lifeline w/FA
4085	Lifeline+FA+E-4
4089	Lifeline+FA+Web Lanyard

Fall Arrester(FA)

NO.4015Z. Zinc Plated Steel

CSA Cert. No. **HARD MEC006**

Automatic single direction locking

function w/panic grab

Max. Deceleration: *24" (600mm)

Min. Breaking: 3,600lb (16kN)

Use For: 5/8" (16mm) d. rope

Degree of Slope/Angle:

Min. Horizontal/Max. Vertical

Serial Numbered +DOM

Compliance: OSHA 1926.502

ANSI Z359.1-07 CSA Z259.2.5

**Requires use of energy absorber.*

Web Lanyard

SAS Model E-4 6002/6004

Webbing: 1" wide Polyester

9,800lb (44kN) strength

Compliance: CSA Z259.11-05

Class B Lanyard. ANSI Z359.1-07

Energy Absorber

SAS Model E-4 I6064/6066

Tear Webbing/Cover: Polyester

Max. Arrest Force: 900lb (4kN)

Max. Deployment: 42" (1.06m)

Compliance/User Weights

Canada: E-4, 100-254lb (45-115kg)

Compliance: CSA Z259.11-05

U.S.A.: E-4, 100-310lb (45-140kg)

Compliance ANSI Z359.1-07

Connector Compliance

Class 1 ANSI-Z359.12-09 and

CSA-Z259.12-11

3,600lb (16kN) gate strength connectors

Attaching Lifeline to Anchorage

Connect "A" end of lifeline to a compatible anchorage device that meets one or more of the following standards: OSHA 1926.502, ANSI Z359.1-07, CSA Z259.15-12 or 3rd party certified engineering. Must be capable of supporting 2x the maximum arrest force of an engineered system or 5,000lb (23kN).

Maxima™ Lifeline
"A" end attaches
to anchorage

17 To 20



Auxiliary Attached

A web lanyard or energy absorber of not more than 30" (750mm) is required to attach the FA to the harness dorsal D-ring. **DO NOT attach FA directly to the Dorsal or Side D-Ring of a harness.**

Factory Attached

Fig.2

E-4 Energy Absorber
No. I6064 USA mfg



"B" end Connects To Fall Arrester.

Fig.3

Web Lanyard
No. 6004



Absorber
Lanyard
length
26.0"
(660mm)

Fig.4

Energy Absorber
E-4 No. I6066



"B" end Fall Arrester attaches to Lifeline.
Lanyards shown are mfg. at
SAS Monroe, WA factory.

Fig.5

Web Lanyard
No. 6005



WARNING!

FA No. 4015Z will lock in one direction only. Failure to attach correctly can result in serious injury or death.

Fall Arrester arrow indicator must point to lifeline connector end "A".
See page 3.

Stopper-Termination Knot
is required to prevent accidental disengagement of the Fall Arrester
DO NOT REMOVE!

X =
Inspection points
See Pg.2

"B" end
Termination
PVC Shrink Tube

12"
(300mm)

Inspect Before Each Use!

Prior to each use, inspect lanyard and perform function tests for connectors. Annual inspections should be done at least once a year by a competent person and recorded on the matrix labels for all equipment. A record of inspections, repair, and removal of equipment from service should be maintained for all equipment. The following inspection points are a guideline of common conditions that occur as a result of abuse, poor maintenance or long service life.

Storage/Maintenance/Service Life

PPE equipment should be hung up and stored in a warm dry area. Clean lifeline and webbing with low pressure air or mild detergent. Synthetic fibers are damaged by mildew, extended UV exposure, water submergence and vermin. Service life is based on frequency of use, environmental conditions and normal wear and tear.

Service life begins at time of first use.

Remove equipment from service if any of the following conditions are present:

⊗ = Inspection points **ACTION REQUIRED:** ☒ = Remove ☑ = Repair

- 1 Subjected to a free fall or other force. ☒
- 2 Obvious damage to any component. ☒
- 3 Warning labels missing or not legible. ☒
- 4 Has not been inspected annually. ☒
- 5 Fails to pass inspection/function tests. ☒

Lifeline

- 8 Strands are cut or hooked. ☒
- 9 Thimble missing, broken or deformed. ☒
Swage damaged, cracked or loose.
- 10 PVC splice cover is missing. ☑
- 11 Knots tied above termination Knot. Untie. ☑
- 12 If knots cannot be removed. ☒
- 13 Termination Knot is missing. ☑
Re-tie knot. See Fig. 1.

Energy Absorber Figs. 2,4,6.

- 14 PVC cover is missing or damaged ☒
and tear webbing is visible.
- 15 Fall indicator warning, "Remove From Service" is visible or missing. ☒
- 16 Wear pads are missing or worn through to backer webbing. ☒

- 6 Paint, caulk, asphalt, rust or any type of material that impedes function or causes fiber or material deterioration. ☒
- 7 Webbing, cross and box stitches are cut, abraded, heat damaged or evidence of chemical contamination. ☒

Connectors

- 17 Connector/s are missing. ☒
- 18 Obvious damaged/missing rivets. ☒
- 19 Gate locking device is damaged. ☒
- 20 Gate won't open or close. ☒

Web Lanyard

- 21 Wear pads are missing or worn through to backer webbing. ☒

Fall Arrester

- 22 Does not pass lock function test. ☒
- 23 Signs of damage. Connector ring is bent or cut. ☒
- 24 Body rivets are missing. ☒
- 25 Does not slide freely up or down on the lifeline. ☒
- 26 Arrow indicator ↑ must point up. ☑
If wrong direction, remove and install correctly. See page 3.

ADVISORY!

Equipment removed from service should be disposed of in a way that prevents further use.

Fig.6

Inspection Example

E-4 16061
Energy
Absorber
"A" end
Snaphook
17 To 20

PVC
Wear Pad
16

Cross Stitching
Box Stitching
7

Clear PVC
Cover is
not shown.
14

Backer Webbing
color designates
absorber model:
E-4 = Black
E-6 = Orange

WARNING!
Absorber is deployed.
REMOVE FROM SERVICE!
White "Tear" webbing is visible.
Partial tear webbing deployment is typical.
1 15

Surplus Tear
Webbing length
varies depending
on free fall force.

Absorber Serviceable Condition: See Fig 2 and 4
Clear PVC cover and label in place.

Fall Indicator
WARNING! is visible.
Absorber deployed.
DO NOT USE!
REMOVE FROM SERVICE.
15

PVC
Wear Pad.
Inspect inside
"A" and "B" ends
for Absorber
Backer
webbing wear.
16

White Tear Webbing maximum deployment is 42.0" (1.06m) for E-4 model absorber.

Box Stitch
7

Stitching
loose or
Webbing
cut
7

Absorber
"B" end

Fig.7
Web Lanyard Inspection

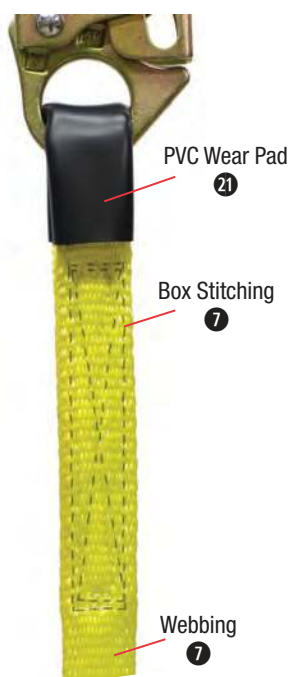
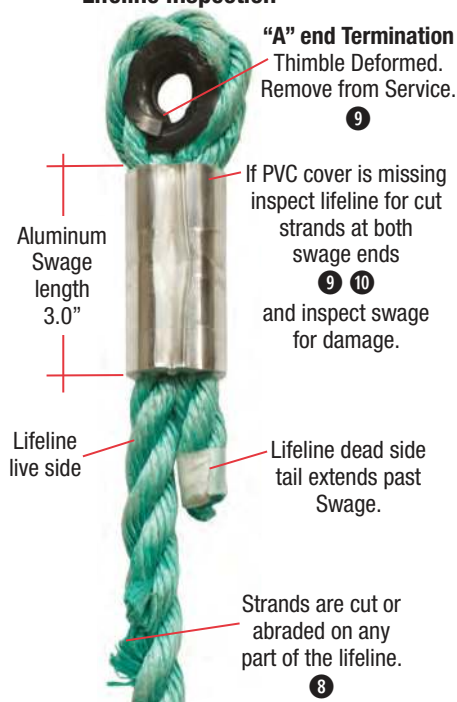


Fig.8
Lifeline Inspection



Connector/Snaphook

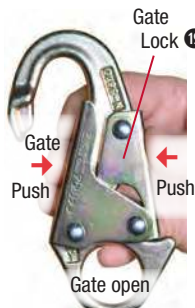
Snaphook gates are designed to remain closed during use and are fitted with gate locks to prevent accidental disengagement.

Fig.9a Snaphook



Gate Locked

9b



Unlock gate

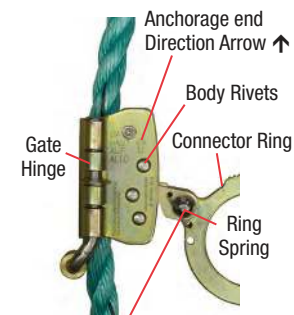
9c



Fig.10a

FA orientation on lifeline

Direction arrow points toward anchorage end.

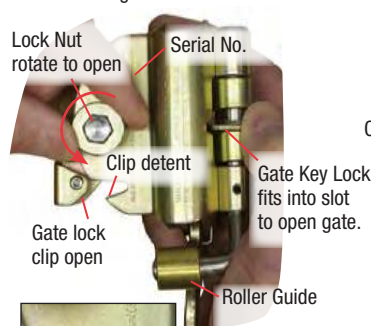


10b

Removing FA from Lifeline

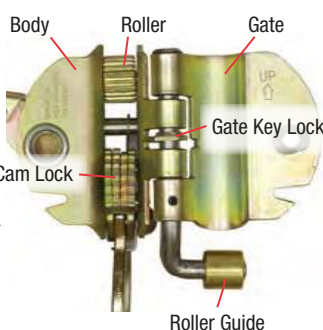
Gate must remain in locked position during use.

Gate Locking Parts



10c

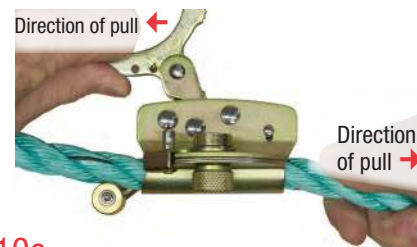
FA Interior must be free and clean of any debris or contamination.



10d

Cam Lock Function Test

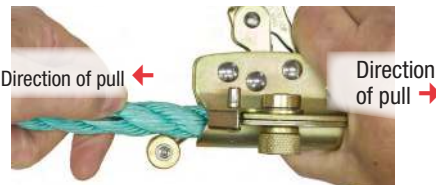
Hold connector ring and pull lifeline from opposite end. Lifeline should not move.



10e

Mobility Test

Hold connector ring down. Pull lifeline in opposite direction. Lifeline should move freely.



Rigging Lifeline Length of Fall Plan (LOFP)/Line Slack

A sample LOFP shown on pg.4 can be used to calculate "Line Slack" shown at Fig.11a to guard against free falls of more than 6ft(1.8m). **WARNING! Too much line slack will increase the free fall length resulting in serious injury or death.**

Live Length/Fall Arrester/Limiter Knot

The lifeline live length is the distance between the anchor point and the leading edge + the allowable line slack that allows horizontal movement along the leading edge. ①

The FA is used to gauge the free fall length by fixing the worker's position on the lifeline. ②

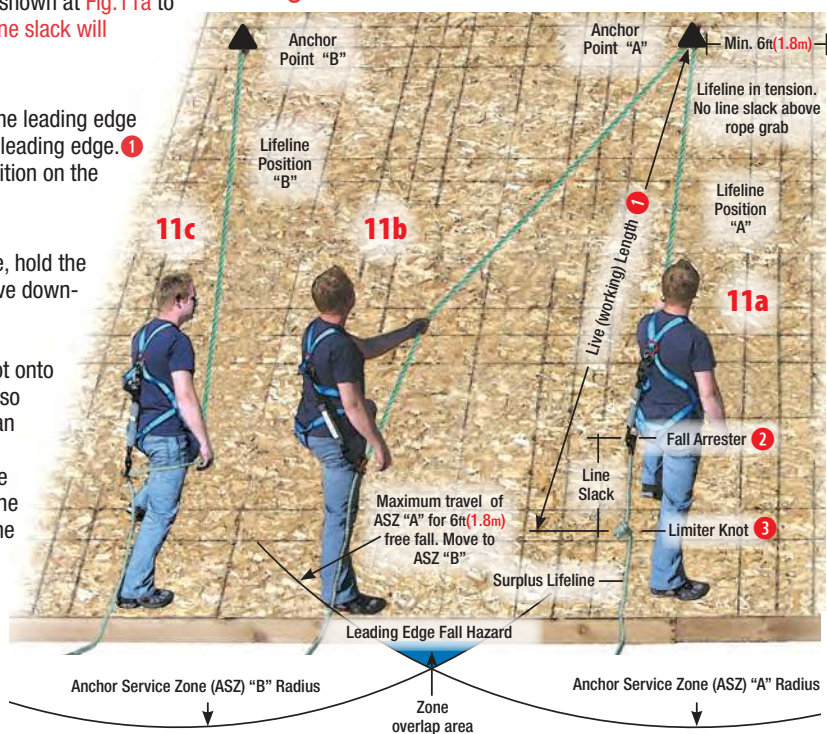
Sample Rigging Method/Anchor Service Zones (ASZ)

- 1) Attach lifeline connector to anchor "A". With tension on the lifeline, hold the FA body or the connector ring down as shown at Fig.10e and move down-slope to the leading edge as shown at Fig.11a.
- 2) Release FA or connector ring to lock FA onto the lifeline.
- 3) Calculated from you own LOFP, fix line slack by tying a limiter knot onto the lifeline below the FA static position ③. The limiter knot will also prevent unintentional movement of the FA on the lifeline which can result in a greater free fall length.
- 4) Shown at 11a is the maximum working length of the lifeline + line slack creating an ASZ radius "A". Travel to the right or left along the leading edge will force the worker's position up-slope once the line slack has been taken up.

Service Zone "B"

- 5) After maximum travel of ASZ "A" has been reached as shown at Fig.11b, ascend to anchor "A", disconnect and attach to anchor "B". The use of a second lifeline at anchor point "B" will allow 100% tie-off. Fig.11c.
- 6) For gable edge fall hazards, several FA adjustments may be required to prevent excess line slack.

Fig.11



Note: Consult ARS manuals for Anchor Service Zone instructions.

Rigging/Length of Fall Plan

The Sample Length of Fall Plan (LOFP) shown here is based on the maximum stretch and deceleration values for each component, a user weight of 310lb (140kg) and a maximum free fall of 6ft (1.8m). To prevent contact with the ground or a lower level, the following factors must be calculated in your own Job Specific Length of Fall Plan:

Note: Max. User Wt. for CSA is based on absorber type.

- 1) Free fall length: "A"
- 2) Line slack: "C"
- 3) D-ring height: "B"
- 4) Fall Arrester deceleration: "D"
- 5) Absorber deployment: "E"
- 6) Harness stretch: "F"
- 7) Ground clearance: "G"

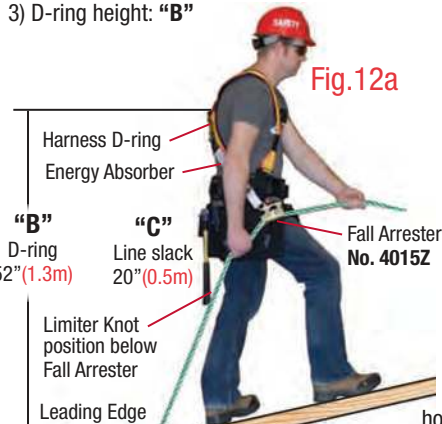


Fig. 12a

Worker's Lifeline Position is gauged using the FA. A **Limiter Knot** tied below the FA will prevent unintentional movement. Use of Limiter Knot allows factor "D" to be eliminated from the LOF.

Calculate Line Slack "C"

Travel along the leading edge is limited to the amount of slack, "C" in the lifeline. The greater the slack, the wider the range of horizontal movement along the leading edge. Line slack is calculated by subtracting the D-ring height "B" from the free fall length "A". Figs. 12a, 12b. (A-B) = C. The sample plan line slack value is 20" (0.5m).

Calculate Length of Fall

(A+D+E+F+G)=LOFP

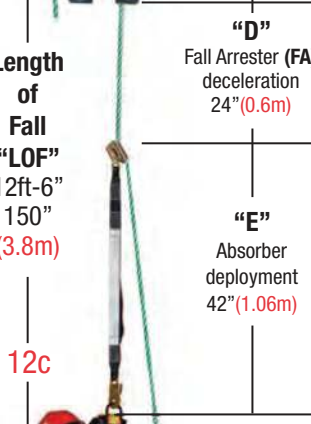
Factors: Sample Plan

- 1) Desired Free fall length "A" 72" (1.8m)
 - 2) FA deceleration "D" 24" (0.6m)
 - 3) Absorber deployment "E" 42" (1.06m)
 - 4) Harness stretch "F" 12" (0.3m)
 - 5) Ground clearance "G" 52" (1.3m)
- Total Length of Fall (LOF) 150" (3.8m)**
Length of Fall Plan (LOFP) 202" (5.1m)

Note: Rope grab deceleration "D" may be eliminated from the LOF by the use of a Limiter Knot.



12b
"A"
Free fall
72" (1.8m)



"D"
Fall Arrester (FA)
deceleration
24" (0.6m)

"E"
Absorber
deployment
42" (1.06m)

"F"
Harness stretch
12" (0.3m)



"G"
Ground
clearance
D-ring
height
52" (1.3m)

LOFP
+
Ground
Clearance
16ft-10"
202"
(5.1m)
=
LOFP

Lifeline Primary Label D.2

Specifies Model, Length and Date of mfg. (DOM)

NOTE: Service Life is specified by first use.

Mfg. by Super Anchor Safety Monroe, WA 98072 USA 3 Strand Maxima Strength Rating 10,582lb 4,800kg Model / MODELE / Modelo 4015Z RMPP POL002 Length / LONGUEUR / Largo FL M Specified for use only with SAS Fall Arrester No. 4015Z CSA certification No. HARD-MEC006 Specified for work at heights Conçu pour les travaux en hauteur	Resistant to UV RESISTANCE A L'UV 3 FILS Classification De 3 Hébras De Fortalecida Max. Elongation Wet or Dry ETRETMENT MAX. MOULLES/SECHS Elongación Máxima Mojado o Seco 1,800lb (8kn) 8.2% DOM / DF / FDF Y/M-A/M Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.2-12 / OSHA 1926
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Inspection/Serial No. Label E.4 specifies Serial No.

Y/M-A/M 01 17 18 19 20 21 Serial Number: NUMERO DE SERIE: WARNING: Avoid sharp edges and abrasive surfaces. Consult instruction manual and inspect before each use and inspect at least every 6 months. AVERTISSEMENT: ÉVITEZ TOUT CONTACT AVEC DES BORDS COUPANTS OU DES SURFACES ABRASIVES. CONSULTEZ LE MANUEL D'INSTRUCTION ET INSPECTEZ LA LIGNE DE VIE MANUELLEMENT ANSIS QU'AVANT CHAQUE UTILISATION. Advertencia: Evite las bordes afiladas y superficies abrasivas. Consulte el manual de instrucciones y compruebe antes de cada uso y por lo menos una vez al año. Super Anchor Safety (SAS) USA 425-488-8868	Maxima: RMPP-POL002 Service Life begins with first use. La durée de vie du produit commence lors de sa première utilisation. WARNING! Do not attach Rope Grab devices to the Dorsal D-ring of a body harness. An energy absorber or lanyard less than 30" (762mm) is required. AVERTISSEMENT! N'ATTACHEZ PAS LA LIGNE DE VIE À L'ANNEAU EN S ET/OU DES DISPOSITIFS D'ARRÊT D'ÉNERGIE. Utilisez un absorbeur d'énergie ou une ligne de vie de moins de 30" (762mm) sans risque. ADVERTENCIA! No conecte los dispositivos del agente de control al D-Ring (Anillo-D) Dorsal de un arnés de cuerpo. Se requiere un amortiguador o cordón de menos de 30" (762mm).
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Fall Arrester Label F-13 is included with units supplied with FA only.

Model / MODELE / Modelo 4015Z HARD MEC006 ANSI Type I / CSA - ADP Fall Arrester DISPOSITIF ANTICHUTE Detenedor de Caídas Material: MATERIALS / Materiales Zinc Plated Steel ACIER PLATINÉ AU ZINC Strength / CAPACITÉ / Fuerza 3,600lb (16k) Model: 16061 Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.2-12 / OSHA 1926	WARNING! Single direction locking function. Must be attached in correct direction or will not arrest a fall. AVERTISSEMENT: FONCTION DE VERROUILLAGE UNIDIRECTIONNELLE. LE DISPOSITIF FIXÉ DANS LA BONNE DIRECTION AFFINE QUE LE DISPOSITIF ANTICHUTE FONCTIONNE. ADVERTENCIA: La función de bloqueo de una sola dirección se debe sujetar en la dirección correcta o no detendrá una caída.	Slope: Inclinaison: Min Horizontal, Max Vertical Degré horizontal min. Degré vertical max. Use only with SAS components: Utilisez la ligne de vie uniquement avec les composants SAS suivants: Utilisez un Cordón Salvavidas Máxima Lifeline™ Maxima Lifeline™ Ligne de vie Maxima™ RMPP POL002 Energy absorber E-4 1601 Absorbeur d'énergie Web Lanyards Cordón No. 6002/6004/6009
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Absorber Labels

Label A. CSA

Connect To D-Ring Harness Back Connecteur à l'Anneau-D Connecteur al Dorsal del Arnés Super Anchor Safety Monroe, WA 98072 USA Energy Absorber ABSORBEUR D'ÉNERGIE Detenedor de Energía Material: Polyester Snap Hook: CROCHET À RESORTS CSA Z259.12-11/ANSI Z359.12-06 3,600lb (16k) gate Model: 16061 Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.11-06 / OSHA 1926	Max. Arrest Force: 900lb (40k) Max. Elongation: ETRETMENT MAX: 1.06m Max. Free Fall: HAUTEUR MAX. DE CHUTE LIBRE: 6ft 1.8m WARNING: Consult instruction manual and inspect before each use. Remove from service if cover is missing, while working is visible or subjected to a free fall. Failure to follow instructions for use may result in serious injury or death. AVERTISSEMENT: Consultez le manuel d'instruction et inspectez avant chaque utilisation. Retirez le produit du service si la couverture est manquante, si une chute libre est visible ou si l'appareil est soumis à une chute libre. L'usage incorrect de cet appareil peut entraîner de graves blessures ou la mort. ADVERTENCIA: Consulte el manual de instrucciones y compruebe antes de cada uso. Retire del servicio al dispositivo si la cobertura no está presente, si se observa una caída libre o si el dispositivo está sujeto a una caída libre. El uso incorrecto de este dispositivo puede provocar lesiones graves o la muerte.
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Label AA.3 USA

Connect To D-Ring Harness Back Connecteur à l'Anneau-D Connecteur al Dorsal del Arnés Super Anchor Safety Monroe, WA 98072 USA Energy Absorber ABSORBEUR D'ÉNERGIE Detenedor de Energía Material: Polyester Snap Hook: CSA Z259.12-11/ANSI Z359.12-09 3,600lb (16k) gate Model: 16061 Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.11-06 / OSHA 1926	Max. Arrest Force: 900lb (40k) Max. Elongation: ETRETMENT MAX: 1.06m Max. Free Fall: HAUTEUR MAX. DE CHUTE LIBRE: 6ft 1.8m WARNING: Consult instruction manual and inspect before each use. Remove from service if cover is missing, while working is visible or subjected to a free fall. Failure to follow instructions for use may result in serious injury or death. AVERTISSEMENT: Consultez le manuel d'instruction et inspectez avant chaque utilisation. Retirez le produit du service si la couverture est manquante, si une chute libre est visible ou si l'appareil est soumis à une chute libre. L'usage incorrect de cet appareil peut entraîner de graves blessures ou la mort. ADVERTENCIA: Consulte el manual de instrucciones y compruebe antes de cada uso. Retire del servicio al dispositivo si la cobertura no está presente, si se observa una caída libre o si el dispositivo está sujeto a una caída libre. El uso incorrecto de este dispositivo puede provocar lesiones graves o la muerte.
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E-4+FA F.14

Model / MODELE / Modelo 4015Z HARD MEC006 ANSI Type I / CSA - ADP Fall Arrester DISPOSITIF ANTICHUTE Detenedor de Caídas Material: MATERIALS / Materiales Zinc Plated Steel ACIER PLATINÉ AU ZINC Strength / CAPACITÉ / Fuerza 3,600lb (16k) Model: 16061 Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.11-06 / OSHA 1926	WARNING! Single direction locking function. Must be attached in correct direction or will not arrest a fall. AVERTISSEMENT: FONCTION DE VERROUILLAGE UNIDIRECTIONNELLE. LE DISPOSITIF FIXÉ DANS LA BONNE DIRECTION AFFINE QUE LE DISPOSITIF ANTICHUTE FONCTIONNE. ADVERTENCIA: La función de bloqueo de una sola dirección se debe sujetar en la dirección correcta o no detendrá una caída.
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Fall Indicator

METTES HORS SERVICE Remueve De Su Servicio Remove From Service Super Anchor Safety INDICATEUR D'ARRÊT DE CHUTE Indicador Contra Caídas Fall Arrest Indicator SAS Serial Number: NUMERO DE SERIE: NUMERO DE SERIE: 01 17 18 19 20 21 02 03 04 05 06 07 08 09 10 11 12 Inspector Matrix Label A © Sen 01-2017
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Web Lanyard Labels

Primary Label Lanyard B.1 specifies Model, Length, Date of Mfg. (DOM).

Super Anchor Safety Monroe, WA 98072 USA Class B Nylon Web Lanyard LONGUE DE VIE NYLON CLASSE B Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.11-06 / OSHA 1926 Model: 16061 Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.11-06 / OSHA 1926	Model / MODELE / Modelo 4015Z HARD MEC006 Length / LONGUEUR / Largo FL M DOM / DF / FDF Y/M-A/M WARNING! Keep away from high heat, open flame and avoid sharp edges. Remove from service if subjected to a free fall, subjected to a free fall or exposed to a free fall. Failure to follow instructions for use may result in serious injury or death. AVERTISSEMENT: Éloignez de la chaleur, des flammes et évitez les bords coupants. Retirez le produit du service si l'appareil est soumis à une chute libre, à une chute libre ou à une chute libre. L'usage incorrect de cet appareil peut entraîner de graves blessures ou la mort. ADVERTENCIA: Manténgase lejos de calor, flamas y bordes afilados. Retire del servicio al dispositivo si está sujeto a una caída libre, a una caída libre o a una caída libre. El uso incorrecto de este dispositivo puede provocar lesiones graves o la muerte.
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Inspection/Warning Label Matrix D.2 specifies serial number.

Y/M-A/M 01 17 18 19 20 21 Serial Number: NUMERO DE SERIE: NUMERO DE SERIE: Super Anchor Safety USA WARNING TO USER: You are required to read and use the Instruction/Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.	WISSE EN GEBOD: VOOR DEZIE LINE EN TOEGANG AAN DE INSTRUCTIE/ SPECIFICATIE. HOU DEZE LINE EN TOEGANG AAN DE INSTRUCTIE/ SPECIFICATIE. HOU DEZE LINE EN TOEGANG AAN DE INSTRUCTIE/ SPECIFICATIE. HOU DEZE LINE EN TOEGANG AAN DE INSTRUCTIE/ SPECIFICATIE. ADVERTENCIA A USUARIO: Usted debe leer y utilizar el manual de instrucciones/ especificaciones suministrado cuando este dispositivo fue enviado. El uso o instalación incorrectos pueden resultar en lesiones graves o la muerte. Siga los requisitos de inspección antes de cada uso.
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Fall Arrester Specification Label F.15

ANSI Type I / CSA - ADP Fall Arrester DISPOSITIF ANTICHUTE Detenedor de Caídas Model / MODELE / Modelo 4015Z HARD MEC006 Material: MATERIALS / Materiales Zinc Plated Steel ACIER PLATINÉ AU ZINC Strength / CAPACITÉ / Fuerza 3,600lb (16k) Model: 16061 Meets / CONFORME A / Cumple ANSI Z359.1-07 / CSA Z259.2-12 / OSHA 1926	Slope: Inclinaison: Min Horizontal, Max Vertical Degré horizontal min. Degré vertical max. Use only with SAS components: Utilisez la ligne de vie uniquement avec les composants SAS suivants: Utilisez un Cordón Salvavidas Máxima Lifeline™ Maxima Lifeline™ Ligne de vie Maxima™ RMPP POL002
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Actual size approx. 7.0" Length