

evolution

horizontal **lifeline**

SALA[®]



USE AND MAINTENANCE MANUAL

NOTICE D'UTILISATION ET D'ENTRETIEN

GEBRAUCHS- UND WARTUNGSANWEISUNG

MANUAL DE UTILIZACIÓN Y DE MANTENIMIENTO

MANUALE D'USO E MANUTENZIONE

BRUKSANVISNING OCH SKÖTSELRÅD

GEBRUIKSAANWIJZING EN ONDERHOUDSINSTRUCTIES

NÁVOD K ÚDRŽBĚ A POUŽITÍ

USE AND MAINTENANCE MANUAL

You have just purchased a Capital Safety anchor device and we would like to thank you for your trust. For this equipment to provide you with the safety and comfort you are entitled to receive, we must ask you to keep and follow TO THE LETTER the following instructions. All users should be required to refer to this manual.

Correspondence of standards and requirements to which this manual refers:

	European standards	North American standards	Canadian requirements	Australian requirements
Anchorage	EN 795 (strength >1000 daN)	ANSI Z359.1 and OSHA requirements	(>22kN, 5000lbs)	15kN for 1 person >21kN for 2 persons AS NZS1891.4 PART 4
Connectors	EN362	ANSI Z359.1 and OSHA requirements	CSA Z259.12-98	AS NZS1891.4 PART 4
Fall arrest system	EN363	ANSI Z359.1 and OSHA requirements	CAN/CSA-Z259.1-95 (R1999) CAN/CSA-Z259.2.1-98(R2004) CAN/CSA-Z259.2.2-98(R2004) CAN/CSA-Z259.10-M90 (R2003) CAN/CSA-Z259.11-M90 (R2003)	AS NZS1891.2 PART 2 AS NZS1891.4 PART 4
Work positioning and restraint system	EN358	ANSI Z359.1 and OSHA requirements		AS/NZS1891.1

Descender device	EN341	ANSI Z359.1 and OSHA requirements	CAN/CSA-Z259.2.3-99	N.A.
Elevation rescue system	EN1496	ANSI Z359.1 and OSHA requirements	CAN/CSA-Z259.2.3-99	N.A.
Marking of anchorage keys for European harnesses	EN361*	ANSI Z359.1 and OSHA requirements	CAN/CSA Z259.10-M90	AS/NZS1891.1 PART 1

* These points are identified by a capital «A» when they are independent or by «1/2 A» or «1/2A» when 2 points have to be connected together.

1 / IMPORTANT RECOMMENDATIONS FOR PPE SYSTEM

1.1 This safety equipment must only be used only by competent persons who have been given appropriate training (repeat as often as necessary) or who are working under the immediate responsibility of a proficient supervisor. The user must be trained in the use and be aware of the characteristics, the application limits and consequences of the incorrect use of the equipment.

Before each use, the user must examine the equipment visually to ensure it is in perfect operating condition. It is important to check for deformation, corrosion, sharp edges and abrasive areas on the metal parts of the system or component. Similarly, check for cuts, burns, broken wires, extensive wear, and change of color or rigidity in the textile parts of the system or component.

1.2 A system or a component that has sustained a fall or on which visual inspection leaves any doubt, must be removed immediately from service. Only competent and skilled persons may decide on the possibility of return to service, given in writing.

1.3. The user must be in good health in order to use the equipment.

WARNING: Consult your doctor if there is any reason to doubt your fitness to safely absorb the shock from a fall arrest. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use the system.

1.4. This product must not be used other than for the purpose recommended by the manufacturer and must not be diverted from its initial and designed purpose.

1.5. When a fall arrest system is being used, for safety, it is essential to check the clearance under the user's working zone to prevent a collision with an obstacle or the ground in case of fall.

1.6. Ensure that a proper rescue plan and the ability to execute it are available for each specific application of the equipment before using it.

1.7. Use this product at an ambient temperature included between -40°C and $+60^{\circ}\text{C}$.

1.8. Before each use, ensure that the recommendations for use of each of the components is complied with as stated in the user manual... It is strongly recommended that components used on the system come from the same manufacturer to ensure product reliability and performance consistency.

WARNING: Do not alter or intentionally misuse this equipment; your safety may depend on it. Consult Capital Safety Group when using this equipment in combination with other components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the proper operation of this equipment. Use caution when using this equipment around moving machinery and electrical hazards. Use caution when using this equipment around sharp edges and chemical hazards.

1.9. Whenever possible, it is highly advisable to assign the system or component personally to the user.

1.10. This system or component must necessarily be attached to an anchorage point. Whenever possible, to attach a fall arrest system, choose an anchorage point located ABOVE the position of the user, avoiding any point whose strength may be subject to doubt. It is preferable to use the structural anchors provided for this purpose or anchorage points conforming to the current standards when the strength exceeds the strength levels provided for in the corresponding standards. The user will ensure to limit the chances of potential fall from height (prefer the use of a restraint system).

Australian conformity

These Systems must be rigged in such a way as to limit the free fall to a maximum of 2m (AS/NZS 1891.2) for fall arrest systems and zero meter (no fall) for restraint systems.

North American conformity

These Lifeline Systems must be rigged in such a way as to limit the free fall to a maximum of 1,8m (6 feet) (ANSI Z359.1-1992) or five feet per ANSI A10.14-1991 for fall arrest systems and zero feet for restraint systems.1.11. In the course of use, take all necessary steps to protect the system or component from hazards related to the operation (burns, cuts, sharp edges, abrasion, chemical attack, tangling or twisting of the cable, webbing or rope, electrical conductivity, weather conditions, pendulum effect due to fall, etc).

A. SHARP EDGES: Avoid working where the connecting subsystem (i.e. full body harness, lanyard, self retracting lifeline, etc.) or other system components will be in contact with, or abrade against, unprotected sharp edges. If working with this equipment near sharp edges is unavoidable, protection against cutting must be provided by using a heavy pad or other means over the exposed sharp edge.

B. SWING FALLS: Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object while swinging (horizontal speed of the user due to the pendulum effect) can be great and may cause serious injury. Also in a swing fall situation, the total vertical fall distance of the user may be greater than if the user had fallen vertically (directly below the anchorage point). Thus, there will be an increase in the total free fall distance, and the distance needed to arrest the fall will increase. Swing falls can be minimized by working as close to directly below the anchorage point as possible. If a swing fall situation exists in your application, contact Capital Safety Group before proceeding.

C. RESCUE: It is vital that a rescue plan can be implemented should a user fall at any point along the System. It should be assumed that the fallen user will not be able to participate in their rescue. Different rescue solutions apply for different types of applications. Capital Safety Group can recommend a suitable rescue system for each application and, can supply appropriate equipment.

For this purpose, any person working at a height must never remain alone at the place of work and after a fall.

D. AFTER A FALL: If the System has been used to arrest a fall, further use of the system should be restricted until a Capital Safety Group Technician or factory authorized representative has performed a full site inspection. During the arrest of a, certain components of the system will deform to help dissipate some of the fall's energy and will require replacement.

If practical, any inspection should be performed using suitable access equipment which does not require the Technician to tie-off to the System. The user's full body harness and shock absorbing lanyard should be discarded. If a self retracting lifeline was used, it must be returned to Capital Safety Group or a factory authorized facility for inspection and maintenance.

1.12. This equipment is designed to be used with the components or sub-systems of the Capital Safety Group (harnesses, lanyards with energy-absorbers, retractable type fall arresters...).

No modifications are to be made to the system or components without the written consent of the manufacturer.

The replacement or substitution using components or subsystems that are not approved could compromise compatibility between equipment and could affect the integrity and safety of the system as well as warranty.

All repairs are to be made according to the procedures detailed by the manufacturer.

1.13. Dealers or retailers of this fall arrest equipment will ensure that a user manual is supplied, in the language of the country of sale.

1.14 Refer to national consensus standards, applicable local, state, and federal (OSHA) requirements governing this equipment for more information on personal fall arrest or restraint systems and associated system components.

2 / CONNECTION TO A FALL ARREST HARNESS

2.1 The connection of a fall arrest system to a harness **MUST EXCLUSIVELY** be carried out using the upper dorsal, sternal or pectoral attaching points; these points may also be used for connecting a descender or an elevation rescue system.

2.2 The lower side positioning anchorage points of a belt or a harness with a belt must be used **SOLELY** for connecting to a work positioning system and **NEVER** to a fall arrest system.

2.3 The anchorage point of a sit belt or a harness with a sit belt is to be used **EXCLUSIVELY** for connection to a work positioning system, a descender or an elevation rescue device and **NEVER** to a fall arrest system.

2.4 The use of a work positioning system alone is allowed only in a restraint mode. In case of any risk of fall, the system must be completed by a fall arrest protection device.

Australian conformity

For use in Australia and New Zealand the user is only permitted to attach to the rear dorsal D ring or rear dorsal extension of a full body harness for a fall arrest system. For a restraint system the user is only permitted to attach to the rear dorsal D ring, rear dorsal extension or a frontal sternum D ring. Waist belts are **NOT PERMITTED** for fall arrest or restraint systems.

3 / USES

CORROSION: Do not leave user equipment of the System (i.e. full body harness, shock absorbing lanyard or Shuttle) for long periods in environments where corrosion of metal parts could take place as a result of vapors rising into the atmosphere from organic materials. Caution should be exercised when working around sewage or fertilizer because of their high concentration of ammonia which is very corrosive. Use near sea water or other corrosive environments may require more frequent inspections or servicing to assure corrosion damage is not affecting the performance of the product.

CHEMICAL HAZARDS: Solutions containing acids, alkali, or other caustic chemicals, especially at elevated temperatures may cause damage to this equipment. When working with such chemicals, frequent inspection of this equipment must be performed.

Consult Capital Safety Group if doubt exists concerning using this equipment around chemical hazards.

ELECTRICAL HAZARDS: Due to the possibility of electric current flowing through this equipment, or connecting components (carabiners), use extreme caution when working near high voltage power lines.

4 / MAINTENANCE AND STORAGE

The maintenance and storage of your PPE or components are essential operations to protect them and therefore the safety of the user. Be sure to comply with the following recommendations:

4.1. Use a dry cloth to clean the plastic and metal parts. Clean textile component with mild soap and water. Never use acid or alkali solvents (caustic soda).

4.2. Allow components to dry in a ventilated place away from any direct flame or any other source of heat. This provision also applies to textile component that have absorbed moisture during use.

4.3. Store the system or component in a room and under conditions complying with its integrity: away from damp and ultraviolet light, in an atmosphere that is not corrosive, overheated or refrigerated, protected from any possible cuts or vibration,

4.4. Transport the component or system in a package to protect it from any cuts, moisture or ultraviolet light. Avoid corrosive, overheated or refrigerated atmospheres.

Australian conformity:

For all products used in Australia/New Zealand, refer to User Instruction Manual (Practices and Procedures) part number A006 for additional information regarding care and maintenance of equipment.

5 / INSPECTION FREQUENCY

5.1. Periodic examination is essential for the safety of the user. This examination guarantees the efficiency and trouble-free operation of the system or component. Be sure to fill in and preserve carefully the descriptive sheet, making a note of any periodic checks.

Refer to the document entitled «List of points to be checked» in order to perform periodic review.

5.2. Life duration: The frequency of the periodic examinations must allow for factors such as legislation, type of equipment, frequency of use and environmental conditions. In any case, the system or component must be examined at least once each year by a competent person cleared by the company manager (or appointed by the current legislation of the country) to decide on possible return to or removal from service or scrapping.

5.3. Any competent person qualified by the company manager having doubts about returning a system or component to service (excessively complex system, concealed mechanism, etc) must contact the manufacturer who will direct him towards persons approved for the task.

5.4. During these examinations, it is important to check that the markings are legible on the system or component.

Australian and New Zealand Requirements

- Inspection by the user of the system and attachments before and after use.
- Inspection and documentation by a competent person of the self retracting lifeline every three (3) months.
- Inspection and documentation by a competent person of the harness and lanyard every six (6) months.

- Inspection and documentation by an accredited installer of the system every twelve (12) months.
- Inspection and documentation by an authorized service agent of the self retracting lifeline every twelve (12) months.

6 / CONNECTORS

6.1 When connecting the carabiner, check that the locking system is in the proper place.

6.2 CAUTION: The carabiner is essential for your safety. Therefore we advise you to:

- 6.2.1 Assign personally the connector whenever possible.
- 6.2.2 Check it before each use in particular for: absence of deformation, absence of wear marks, correct operation of locking system.
- 6.2.3 Similarly, if the carabiner has been used to arrest a fall, for safety reasons it is essential to remove it from service or return it for verification.

7 / RECOMMENDATIONS SPECIFIC TO CABLE ANCHORAGE DEVICES

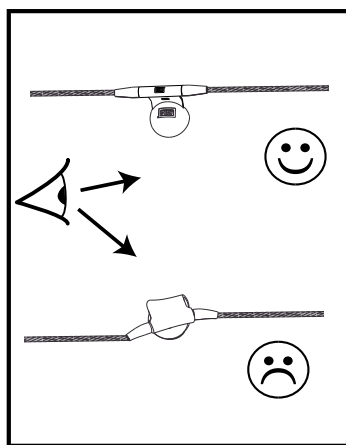
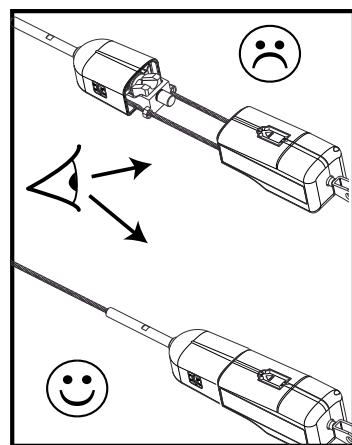
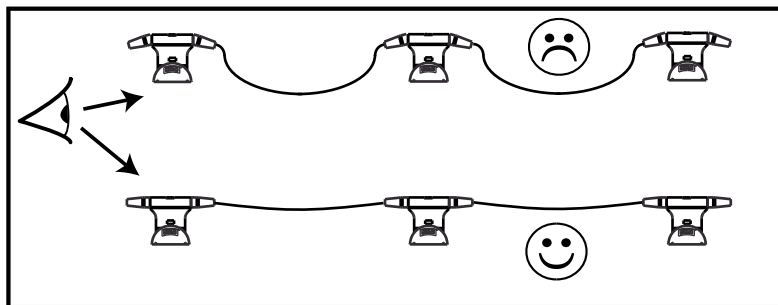
Warranty

Capital Safety Group is ISO 9001 certified: 2000. The manufacturing of the lifeline is carried out under continuous quality control. Capital Safety Group guarantees all the components of the lifeline from any manufacturing defects. The equipment is guaranteed for a year; this guarantee applies to the replacement of parts considered to be defective. On written notification, Capital Safety Group agrees to replace the defective parts. Capital Safety Group reserves the right to analyze the parts on its premises before repair or replacement.

Limitations to the guarantee:

The guarantee does not apply to:

- Lifeline support equipment.
- Parts that are damaged due to a qualification test or the use of the line other than in the prescribed manner.
- Assembly of the lifeline
- Use of the lifeline beyond these capacities.



Inspection - Vérification - Überprüfung - Inspección - Ispezione - Besiktning - Inspectie - Inspekcje

Date Date Datum Fecha Data Datum Datum Datum	Competent person Personne compétente Zuständig Persona competente Behörig person Competente persoon Zodpovědný revizor	Reason for entry Raison du retour Grund für die Einreichung Motivo de la devolución Motivo del reso Returanledning Reden terugsturen Důvody pro zápis	Defects noted, repairs carried out Défaut constaté ou réparation effectuée Festgestellte Mängel, durchgeführte Reparaturen Defecto constatado o reparación efectuada Difetto rilevato o riparazione effettuata Fastställda fel eller utförd reparation Opgemerkte Defecten-uitgevoerde reparatie Nalezené závady, provedené opravy	Next due date Prochaine révision Nächste Überprüfung Próxima revisión Prossima revisione Datum för nästa besiktning Volgende inspectie Datum příští revize

Comments / Commentaires / Kommentar / Comentarios / Commenti / Kommentarer / Opmerkingen / **Poznámky**

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**DESCRIPTIVE SHEET - FICHE D'ESCRPTIVE - BEGLEITBLATT - FICHA DESCRIPTIVA - SCHEDA
DESCRITTIVA - SPECIFIKATIONSORT - PRODUCTGEGEVENS - POPISNÝ DOKUMENT**

Product Produit Produkt Producto Prodotto Produkt Product Výrobek		
Model & Type/ identification Modèle & type Modell & Typ / Identifizierung Modelo y tipo Modello & Tipo Modell och typ Model & Type Identifikace: Model & Typ		Identification number Référence Kennnummer Referencia Riferimento Beteckningsnummer Productnummer Identifikační číslo
Manufacturer Fabricant Hersteller Fabricante Produttore Fabrikant Výrobce	Capital Safety group	
Month / Year of manufacture mois / Année de fabricant Herstellungsmonat und -jahr Mes/Año de fabricación Mese/Anno di produzione Tillverkningsmånad /år Maand / jaar fabricage Měsíc / Rok výroby /	Life expiry date (MM/YY) Lebensdauer bis MM/JJ Fecha de caducidad (MM/AA) Data di scadenza (MM/AA) Utgångsdatum (MM/AA) Uiterste gebruiksdatum (MM/JJ) Datum vypršení užitéžné životnosti (MM/RR) /
Purchase date Date d'achat Kaufdatum Fecha de compra Data di acquisto Köpdatum Maand aankoop Datum koupě / /	Date first put into use Date de première utilisation Datum der ersten Inbetriebnahme Fecha de primera utilización Data del primo utilizzo Datum för första användningstillfälle Datum eerste gebruik Datum prvního operačního nasazení / /

<p>EXAMINATION OF THIS TYPE carried out by the notified organization TYPPRÜFUNG durch die zugelassene Stelle EXAMEN DE ESTE TIPO realizado por una organización notificada ESAMINAZIONE DI QUESTO TIPO eseguita dall'organismo riconosciuto UNDERSÖKNING AV DENNA TYP utförd av notifierad organisation ONDERZOEK VAN DIT TYPE uitgevoerd door de betreffende organisatie PŘEZKOUŠENÍ TOHOTO TYPU bylo provedeno uvedenou organizací</p>	<p>No. 0082:</p> <p>APAVE SUD EUROPE BP 193 13322 MARSEILLE CEDEX 16 France</p>
<p>PRODUCTION QUALITY FOLLOW-UP by a notified organization QUALITÄTSÜBERWACHUNG durch eine zugelassene Stelle SEGUIMIENTO DE LA CALIDAD DE PRODUCCIÓN por una organización notificada CONTROLLO QUALITA' DI PRODUZIONE eseguito da un organismo riconosciuto UPPFÖLJNING AV PRODUKTENS KVALITET utförd av notifierad organisation CONTROLE PRODUCTIEKWALITEIT door erkende organisatie KONTROLA KVALITY VÝROBY je sledována touto uvedenou organizací</p>	<p>No. 0086 :</p> <p>BSI 389 Chiswick High Road LONDON W4 4AL UK</p>

EUROPE - MIDDLE EAST - AFRICA

CAPITAL SAFETY GROUP EMEA
Le Broc Center - Z.I. 1^{re} avenue - BP 15
06510 Carros Le Broc Cedex - FRANCE
Tel : +33 (0)4 97 10 00 10
Fax : +33 (0)4 93 08 79 70
www.salagroup.com
information@capitalsafety.com

NORTHERN EUROPE

CAPITAL SAFETY GROUP NE LTD
7, Christleton Court - Stuart Road Manor Park
Runcorn - Cheshire - WA7 1ST - UK
Tel : +44 (0) 1928 57 13 24
Fax : +44 (0) 1928 57 13 25
www.salagroup.com
csgne@csgne.co.uk

USA

CAPITAL SAFETY USA - PROTECTA/DBI/SALA
3965 Pepin Avenue Red Wing,
MN 55066-1837 - USA
Toll Free : 800-328-6146
Phone : +1(651) 388-8282
Fax : +1(651) 388-5065
www.salagroup.com
solutions@dbisala.com

CANADA

CAPITAL SAFETY GROUP CANADA LTD
260 Export Boulevard - Mississauga, Ontario
L5S 1Y9 - CANADA
Toll Free : 800-387-7484
Phone : +1(905) 795-9333
Fax : +1(905) 795-8777
www.salagroup.com
sales.ca@capitalsafety.com

AUSTRALIA

CAPITAL SAFETY GROUP LTD
20 Fariola Street Silverwater
Sydney NSW 2128 - AUSTRALIA
Phone : +61 2 9748 0335
Toll-Free : 1 800 245 002
Fax : +61 2 9748 0336
sales@capitalsafety.com.au

ASIA

CAPITAL SAFETY GROUP LTD
Room 2009 Tower 2 Metroplaza
223 Hing Fong Road - Kwai Chung N.T.
Hong Kong - CHINA
Phone : +852 2858 7237
Fax : +852 2311 4601
inquiry@capitalsafety.com.hk

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A brand of Capital Safety

