SpanSet®

01

Height Safety
Lifting
Load Control
Safety Management

ERGOlite HARNESS RANGE

Technical Data Sheet

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SpanSet GROUP

50 YEARS

SpanSet Certified Safety

ERGOlite Harness Range

1100 ERGOlite Full Body Fall Arrest Harness

1107 ERGOlite Full Body Fall Arrest Harness

1104 ERGOlite Full Body Fall Arrest Harness

1300 ERGOlite Full Body Fall Arrest Harness

User Weight Limits

All harnesses = 160kg. Refer to specific lanyard and inertia reel data for force calculations.

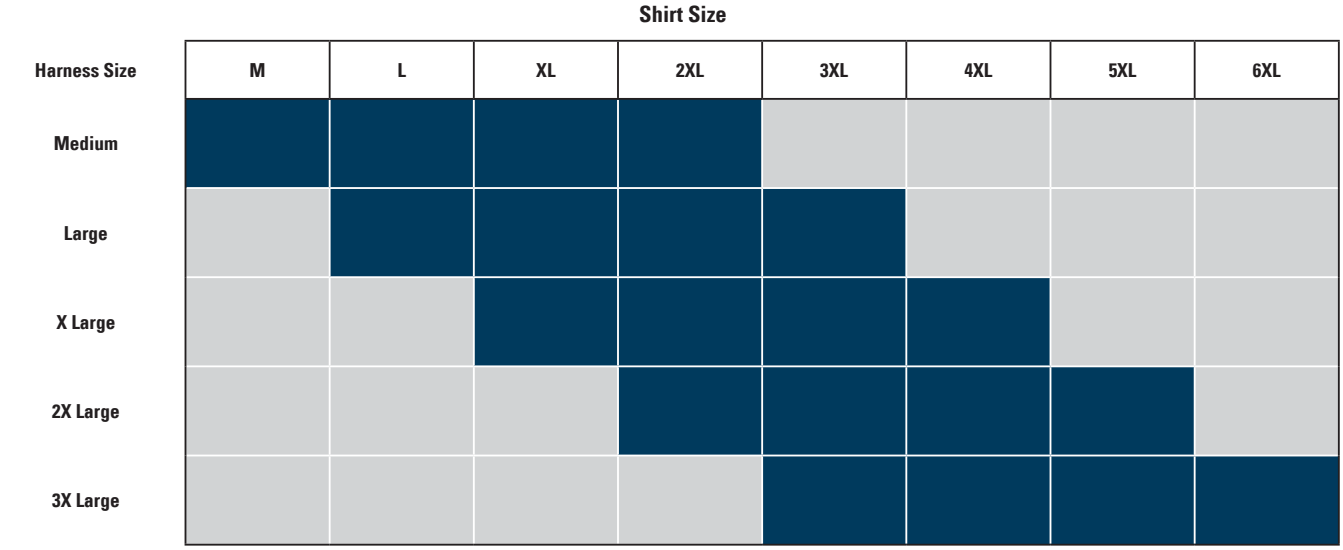
Attachment Hardware

Rear D	Forged aluminium
	Cranked (bent) for ease of attachment
	Polished for smoother edges
	Clear anodised for corrosion resistance
	Minimum tensile strength 22kN (5M–5000lb)
	Proof loaded to 16kN
	Ring internal diameter 54mm
	Webbing slot size 16 x 54mm
	Compatible with Gotcha™ Rescue Kit
	Laser etched with batch number and rating
Front D	Forged aluminium
	Polished for smoother edges
	Clear anodised for corrosion resistance
	Minimum tensile strength 22kN (5M–5000lb)
	Proof Loaded to 16kN
	Ring internal diameter 46mm
	Webbing slot size 11mm x 46mm
	Compatible with Gotcha™ Rescue Kit
	Laser etched with batch number and rating
Buckles	2 bar buckles for easy adjustment
	17.8kN/4000lb
	Clear annodised for increased corrosion resistance
	Webbing slot size 46mm
	Stamped with batch number and rating
	Exceed AS/NZSS 1891.1

Quick Connect Buckles	Double action pawls
	"Green light" safe connection indicator
	Lightweight aluminium
	Annodised for corrosion resistance
	Intergrated roll buckle adjuster
	Extruded and machined
Webbing	Colourfast polyester high tensile
	Heat set for lower friction co-efficient – longer wear
	Light (UV) degradation certified to AS/NZS1891.1
	Minimum tensile strength 30kN
	Lay flat – non-roping
Sewing	Hight tensile polyester light fast, UV resistant thread
	Load bearing seams sewn with high density, multi-bar tack patterns for extra wear and ease of inspection
	Load bearing seams sewn on computerised lock-stitch machines for consistency and security
	Contrasting colour for ease of inspection
	Non load-bearing patterns (labels, web end fold backs, decorative etc) flat manual sews
	All finished with over-stitching
Labels	Compliance labels protected in openable pouch
	UV resistant PVC
	Thermal transfer printing
Webbing Keepers	Nylon high density elastic for easy stowage of excess webbing
	Contrasting black for quick identification
	Rubber pull tabs on all end straps

Suspension Trauma Relief Straps	20mm nylon webbing
	2-part hook and loop design
	Housed in individual zippered soft pouches
	Attached to harness via reevable loop and positioning press studs
	Length adjusting increments 185mm
	300 Kg WLL
Waist and Buttock Padding	Motion activated ventilation bellows effect
	Composite foam and mesh
	Moulded and formed for greater eronomics
	Nylon abrasion resistant outer shell
	Nylon mesh, breathable inner lining
	Stiffened and reinforced for additional support
Confined Space Attachment Loops	UV resistant polyester tubing
	Tight and small enough to fit snap hooks
	Colour contrasted for ease of identification
	Must be used together
	Clearly labelled
Construction	Original ERGO Euro style geometry
	3 layer pocket webbing supporting load bearing Chest strap for front D
	ERGOnomic, pull up adjustment at front shoulder straps
	Sub -pelvic strap to minimise peel out
	Fully adjustable shoulder, leg and chest straps
	Leg straps fixed at hips – no excessive tightening around thighs in the event of an arrested fall
	Front D allows for easier attachment with remote rescue kits
	Centralised front D gives even loading

Sizing



Testing

5-stage inspection process during manufacture:

All harnesses tested and certified to AS/NZS1891.1 - 2007

100% visual inspection

Rear D and front D's tested to dyamic 3.8m head up and head down

Rear D and front D's tested static 15kN head up and 10kN head down

Side Ds – 1.8m drop test on pole 12kN static test at side Ds and rings

Confined space loops – 12kN static test through spreader bar

Webbing UV degradation tested

Certification

Designed, tested and certified to AS/NZS1891.1-2007

Common Features

Lightweight and comfortable

Easy to fit and adjust

Individually serial numbered

Features	1100 ERGOlite	1104 ERGOlite	1300 ERGOlite
Harness Weight	1.215kg	1.284kg	1.720kg
Breathable rear mesh panel	•	•	•
Confined space attachment loops	•	•	•
Front fall arrest D ring	•	•	•
Padded waist band and side pole strap widemouth Ds			
Rear fall arrest D ring	•	•	•
Rear fall arrest extension strap		•	
Suspension trauma relief straps	•	•	•
Waist band and side Ds			•
Suitable for			
Confined space entry	•	•	•
Construction	•	•	•
Elevated work platforms	•	•	•
Fall arrest	•	•	•
Hire industry			
Ladder safety systems	•	•	•
Maintenance	•	•	•
Pole work			•
Rescue			
Roof work	•	•	•
Rope access			
Tower work			

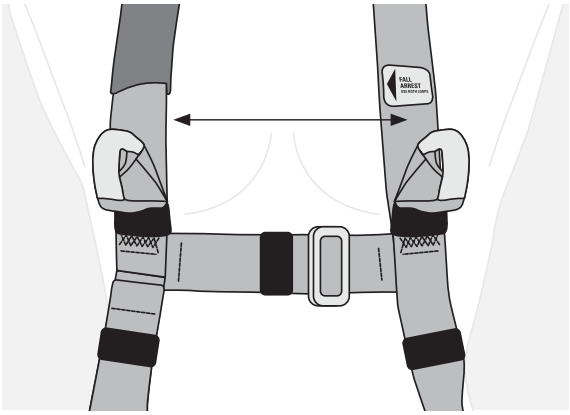
Types of Attachment Points

1 **Confined space attachment loops**
Reverse folded loops to eliminate snagging and minimise metal components in contact with the body. Both loops must be used together.

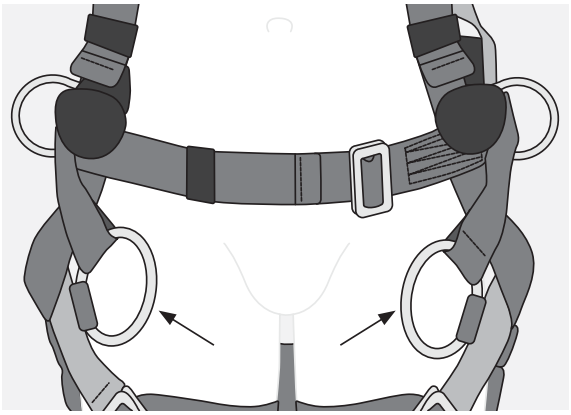
2 **Front fall arrest D ring**
For versatility and ease of rescue.

3 **Pole strap attachment D rings**
Easy to locate and connect to.

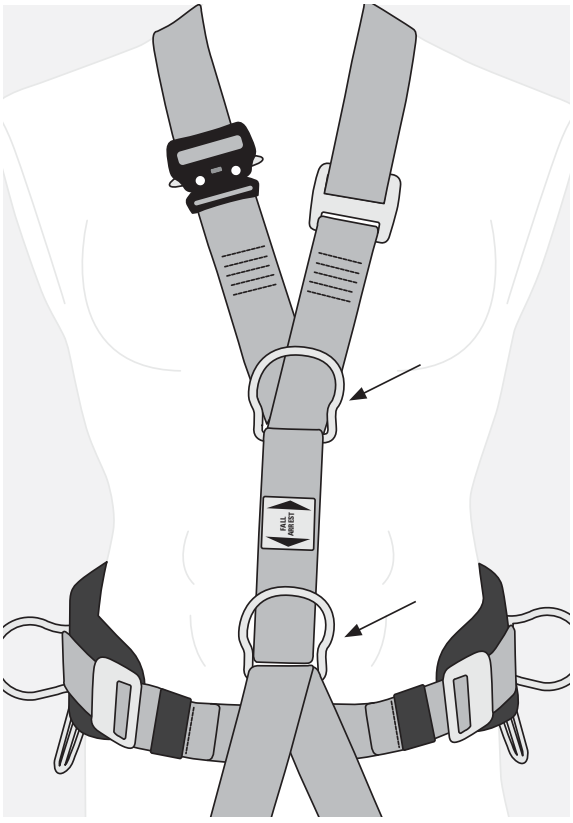
4 **Rear fall arrest D ring**
Easy to locate and connect.



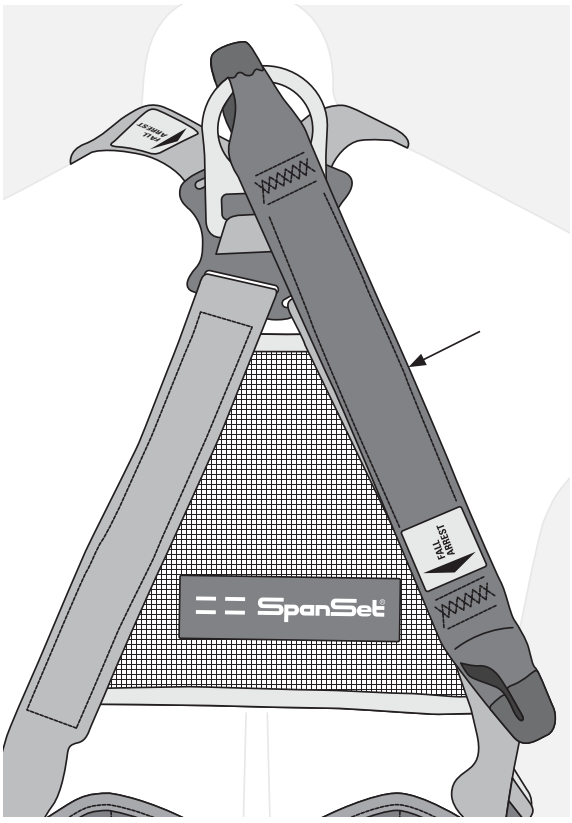
Front Fall Arrest Loops
(Both loops must be used together)



Auxiliary Pole Strap Rings
(Both Ds must be used)



Front Fall Arrest
Attachments (can also be used for abseiling, work positioning or belay work)



Dorsal/Rear (Fall Arrest) Extension Strap

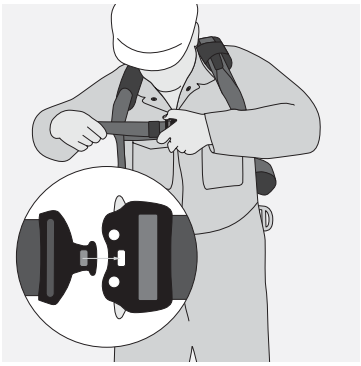
WARNING: ONLY USE ATTACHMENTS THAT ARE SPECIFICALLY LABELLED FOR THE APPLICATION

Fitting Instructions

Vest Style Harnesses

Hold harness by the Rear D with all straps undone

Place both shoulder straps over the shoulder as in donning a vest



Connect chest buckle, ensuring that green spot is seen in the receiver window. Tighten strap.

If a waist belt is fitted, connect and tighten

Connect leg buckle

Tighten leg strap

Connect opposite leg strap

Tighten straps and retain free webbing within the elastic web tidy

Fitted harness should be snug and firmly fitted, particularly the leg straps

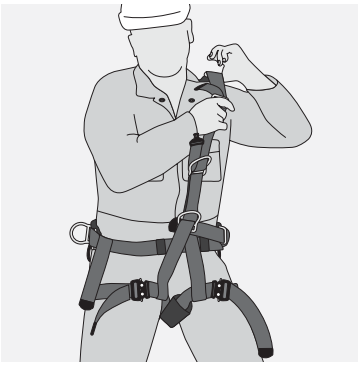
Step-in Style Harnesses

Hold harness by the shoulder straps and disconnect the chest fast release buckle

Place left leg through the left leg strap

Place the right leg through the right leg strap

Pull the harness upwards to waist level

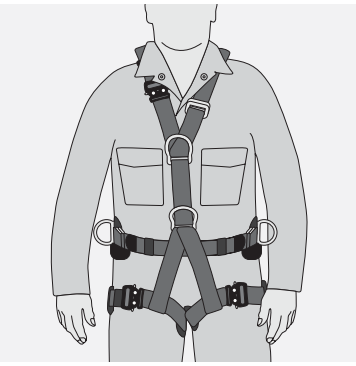


Place the left shoulder strap over the shoulder

Repeat for right shoulder strap and connect the buckle. Ensure green spot can be seen in the receiver window

Tighten waist strap by pulling both sides

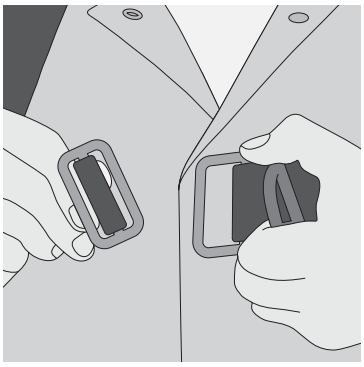
Tighten leg straps



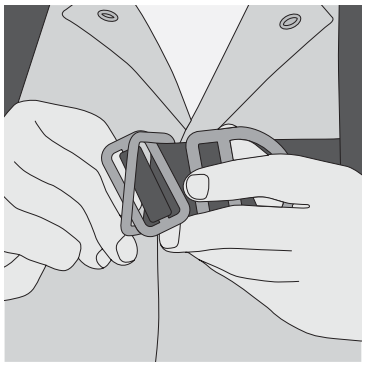
Fitted harness should be snug and firmly fitted, particularly the leg straps

Buckle Connection Instructions

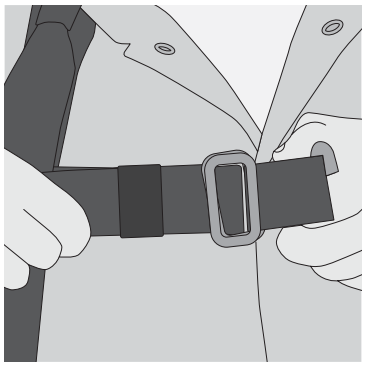
2-3 Bar Buckles



Bring the 2 buckles together, ensuring there are no twists in the webbing

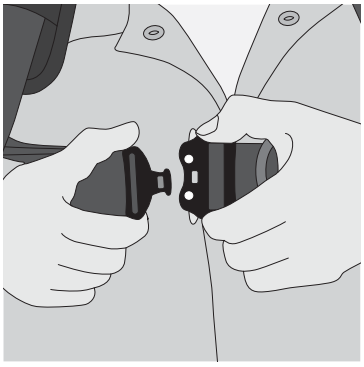


Turn the 3 bar buckle and push it through the 2 bar buckle

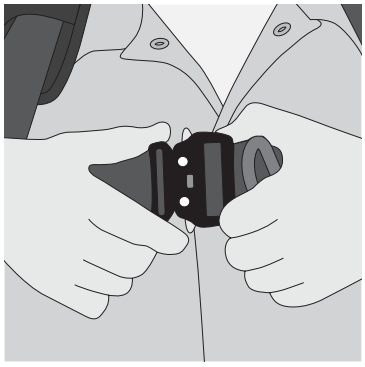


Ensure both buckles lay flat against one another and tension the strap

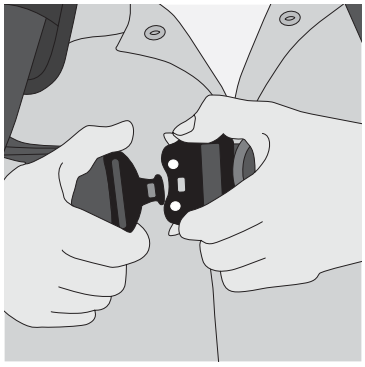
Quick Connect Buckles



Align the tongue with the slot in the receptor buckle and insert

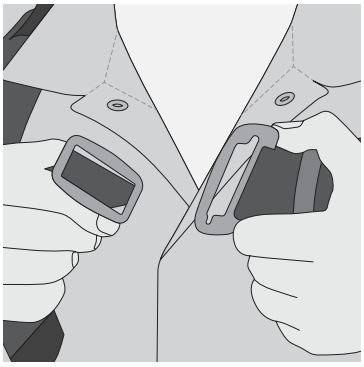


Push together until you hear a distinct click and the green mark appears in receiver window

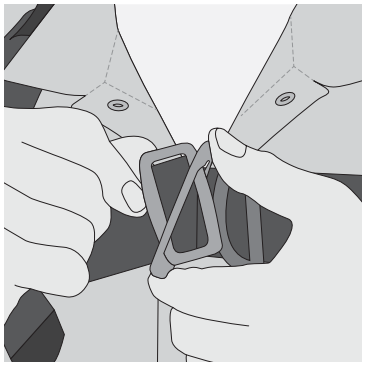


To release, push the two side tabs simultaneously and separate the buckles

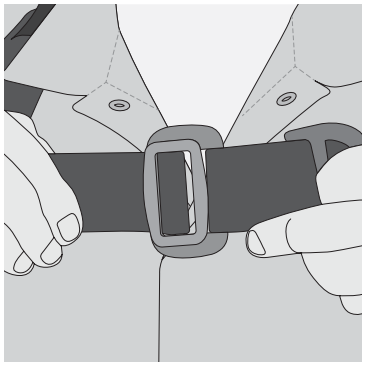
Slotted Buckles



Bring the 2 buckles together, ensuring there are no twists in the webbing

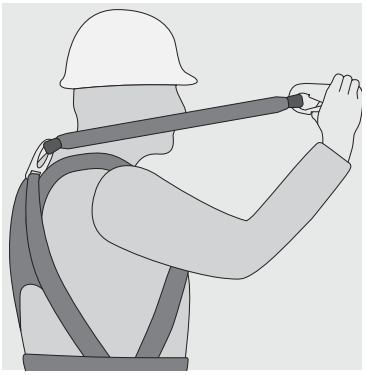


Push the smaller buckle through the slot in the larger buckle



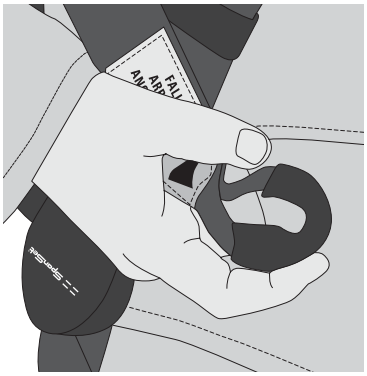
Ensure both buckles lay flat against one another and tension the strap

Dorsal Extension

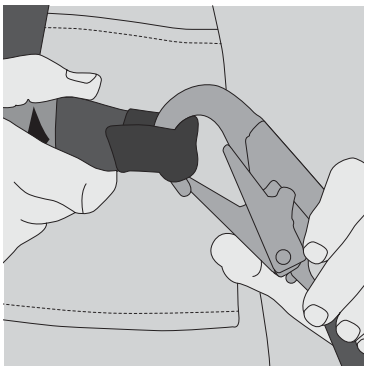


The dorsal extension is located at the rear of the harness, held in place by velcro strip

Remove dorsal extension from velcro strip and bring under the armpit



Ensure the eye is open to receive the connection hardware



Connect attachment hardware to the eye, making a visual check for secure connection

Note: All SpanSet dorsal extensions are deliberately located on the rear of the harness in order to keep an attached lanyard away from the neck and face.

The harness is correctly fitted (donned) when:

- The dorsal D ring (rear) is between the shoulder blades
- The shoulder straps are firm
- The chest strap is firm and located mid-chest
- The leg straps are firm
- There are no twists in any straps
- The butt strap is located just below the buttocks
- Spare strap ends are tucked away.

Types of Harnesses and Environmental Conditions

ERGOplus and ERGOiplus Harnesses
These premium harnesses are padded for comfort and feature quick connect buckles for convenience when donning. For professional users in dry conditions where no excessive dirt, mud and grime build up is experienced. ERGOiplus also features iWeb inspectable webbing with Xtreme Guard coating

ERGO Harnesses
These are the workhorses in the range and are best suited for dirty and harsh conditions by professional operators who appreciate no nonsense reliability. They feature the most
reliable buckle system, being the 2 and 3 bar buckle, and don't feature any moving parts or unnecessary padding.

Compliance Harnesses
Tradie and EWP (also known as Spectre) harness are compliant entry level harnesses without many of the features of the previous harness ranges such as confined space loops, centre front D and suspension trauma straps

HotWorks Harnesses
These harnesses are for use around welding, grinding and similar hot work. They are made from heat resistant materials including the padding and have a lower total cost of ownership compared to polyester harnesses which are susceptible to heat.

WaterWorks Harnesses
These are for use around constantly wet areas and confined spaces and utilise all stainless steel fittings for longevity. Additionally they have Xtreme Guard coated webbing for water oil and dirt resistance.

ToughWorks
These are PVC or polyurethane coated harnesses for added resistance to paint, abrasion and excessive wear.

StageWorks
These particular harnesses have little or no reflectivity for working backstage and aloft at productions where the riggers and support personnel need to work at height but remain inconspicuous.

Belts
Waist belts one their own must not be used for fall arrest applications. SpanSet generally only manufacture miners' belts, to carry battery packs and self-rescuer devices. These belts may be integrated into full body harnesses however only the load bearing and tested harness attachment points listed in AS/NZS 1891.1 may be utilised in fall, rescue or suspension applications.

Maximum User Weights
SpanSet harnesses are rated in excess of 150kg.

General Maintenance

– A visual check should be carried out before and after daily use, and a 6 monthly periodic inspection is to be performed by a competent person and the results recorded.

– Clean prior to inspection.

Checklist for Inspection of Harnesses and Pole Straps

The following points should be checked before use:

– Check all webbing for effects of cuts, tears, abrasion, heat, chemicals, corrosives or solvents, hardening, excessive stretching, glazing due to friction, excessive wear or fuzziness, discolouration due to chemical contamination or prolonged ultraviolet exposure, excessive stiffness due to overloading, possibly as a result of a fall.

– Check all stitch blocks for broken, cut or worn stitching and damage due to heat, corrosives, solvents or mildew

– Check all buckles and D-rings for deformation, distortion, corrosion, wear and correct orientation

– Ensure the protective sleeve is in place on the pole strap

– Check ID number and Standards logo for legibility

– Check Date of manufacture - life shall not exceed 10 years

– Check for evidence of a fall. Must be withdrawn from service after a fall and destroyed if any damage has been sustained

– Check with the user for possible causes of damage.

If any of these points are not satisfactory then the harness should be destroyed.

Inspecting iWeb Enabled Products

Webbing with iWeb is woven with a contrasting (red) core of load bearing webbing which runs the full width and length of the webbing. To inspect, simply look for signs of red in any abrasion point, scuff, or cut on the surfaces or edges. This gives an objective inspection and discard criteria for both the user and the competent inspection person to apply.

Training Courses

Height Safety

Working Safely at Height*

Working Safely at Heights Refresher

Height Safety Supervisor*

Height Safety Manager*

Rescue

Rescue Systems Operator*

Vertical Rescue*

Tower and Pole Rescue*

Wind Access Rescue Technician*

EWP Emergency Escape

Gotcha Rescue

Confined Space

Confined Space*

Confined Space - Refresher*

Breathing Apparatus*

Confined Space Non-Entry Rescue*

Inspection

Competent Person Practical Inspection and Record Keeping*

* Nationally Recognised Training

SpanSet Accreditations

ISO 9001:2015 Certified Quality Management System

ISO 14001:2015 Certified Environment Management System

OHSAS 18001:2007 Certified Occupational Health and Safety Management Systems

Australian/New Zealand Standard 4801:2001 certified Occupational Health and Safety Management Systems

Accredited for compliance with ISO/IEC 17025 - Testing

ASQA Registered Training Organisation certified to ISO 9001:2008

Certified manufacturer to AS/NZS 1891.1 "Industrial Fall Arrest Systems and Devices"

Certified manufacturer to AS/NZS 1353.1 "Flat Synthetic Webbing Slings"

Certified manufacturer to AS/NZS 4497 "Round Slings—Synthetic Fibre"

bsi. ISO 9001 Quality Management FS 695309 | ISO 14001 Environmental Management EMS 695307 | OHSAS 18001 Occupational Health and Safety Management OHS 695310 | AS/NZS 4801 Occupational Health and Safety Management OHS 695306

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