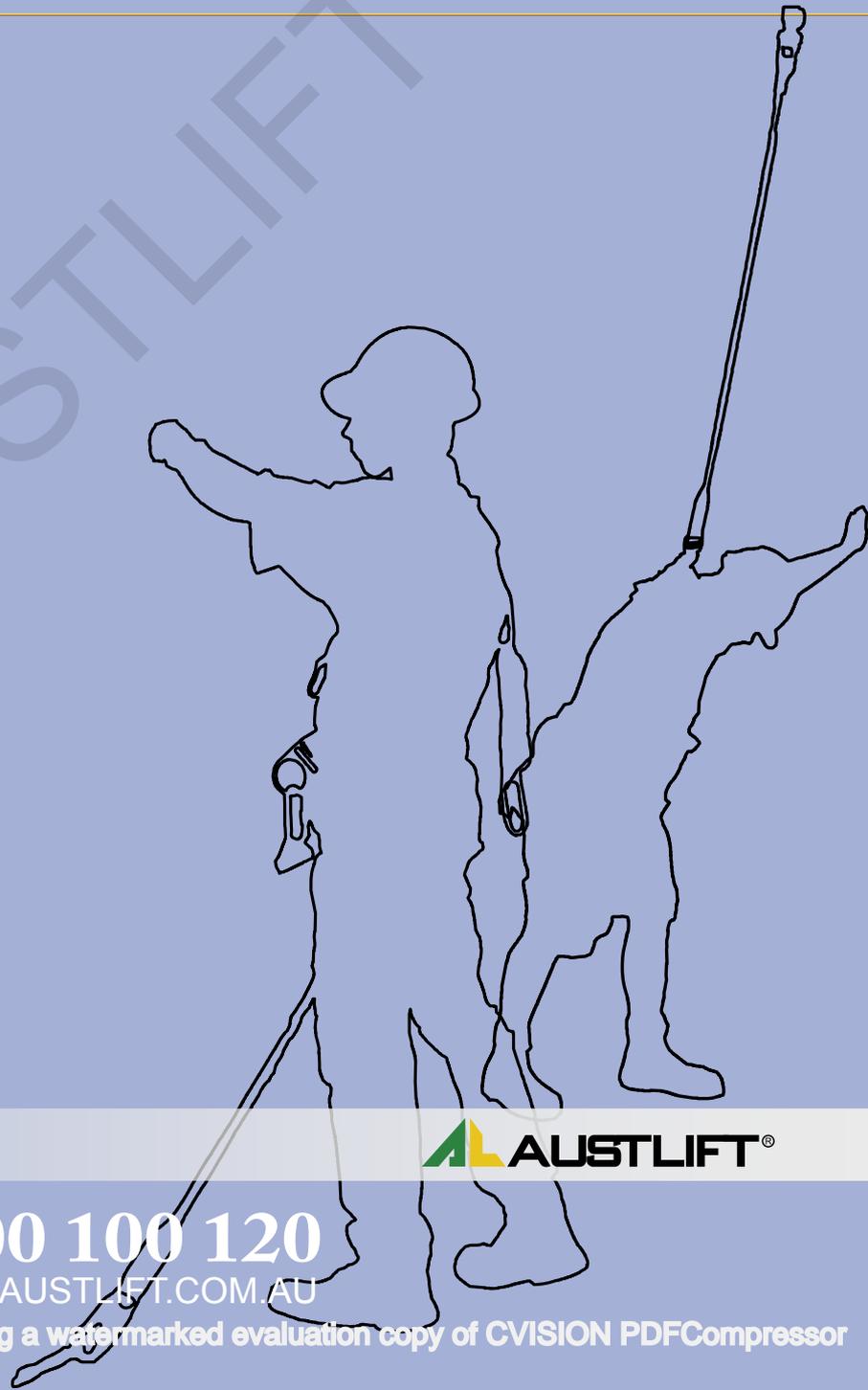


AUSTRALIAN LIFTING CENTRE PTY LTD

# PERSONAL PROTECTION EQUIPMENT

AUSTLIFT



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LIFTING YOUR BUSINESS TO A HIGHER LEVEL

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DEFINITIONS FOR FALL PROTECTION

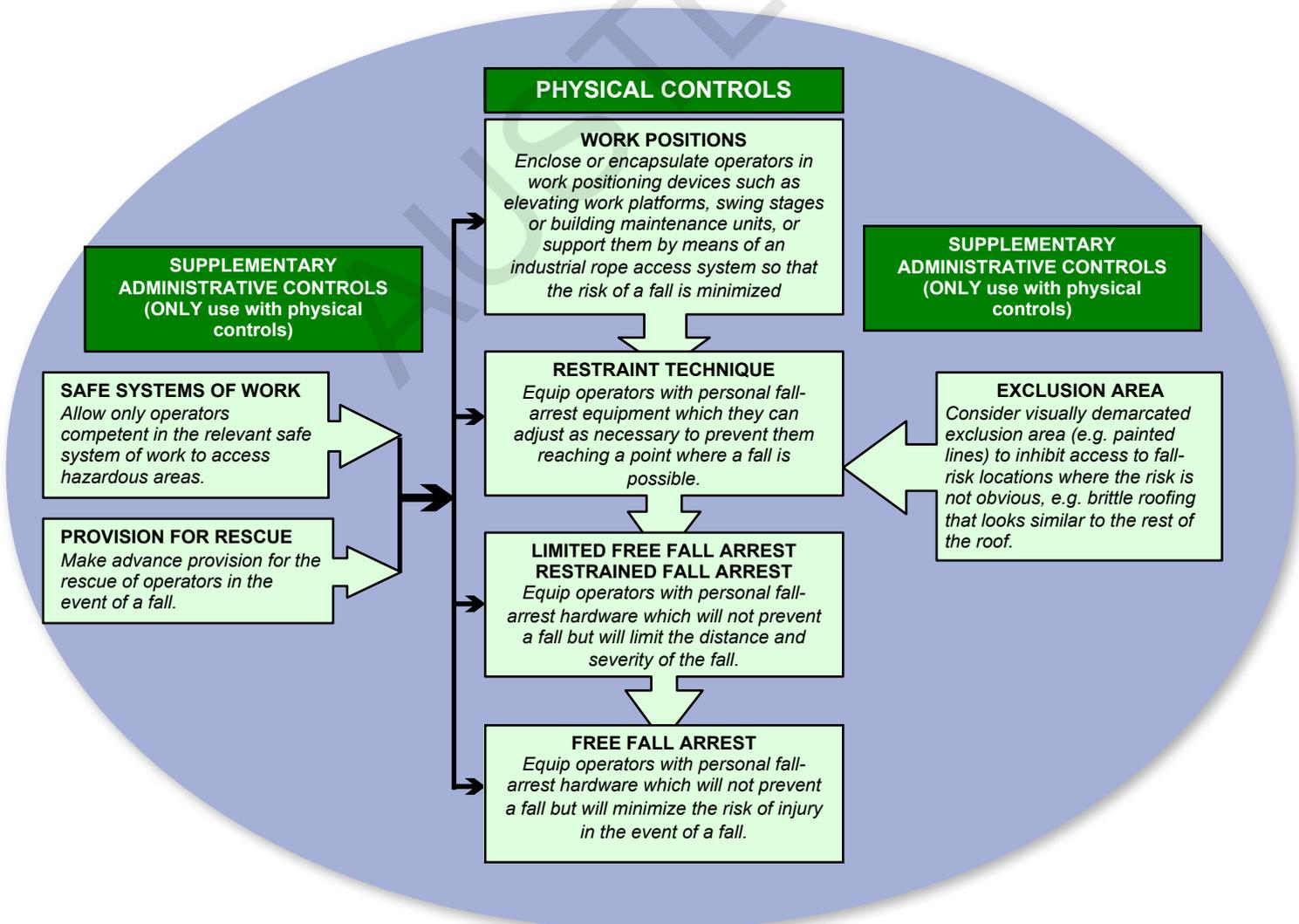
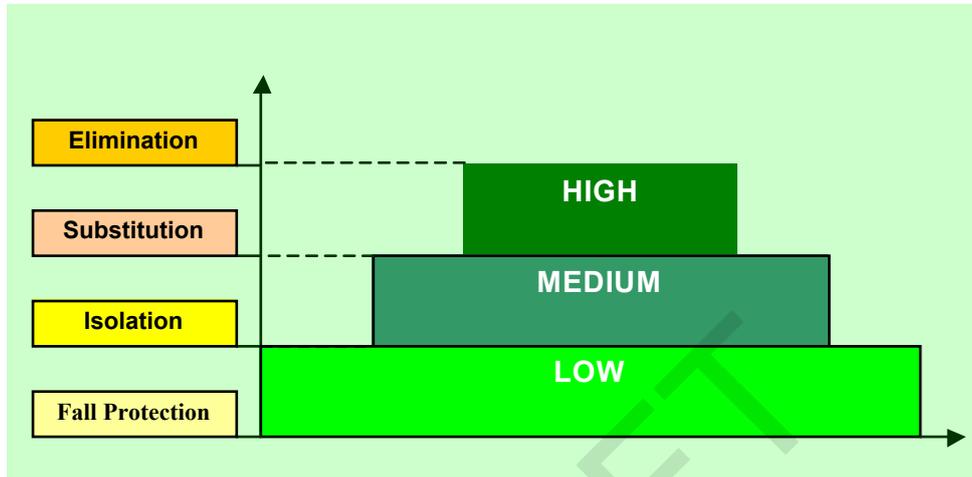
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## DEFINITIONS FOR FALL PROTECTION

Restraint	A system whereby a person, wearing fall arrest equipment, is connected to an anchorage that prevents the person from reaching a position at which there is a risk of suffering a free or limited free fall. As per the requirements under current AS/NZS1891.1 people working in restraint must use an anchorage, connection and harness suitable for fall arrest.
Work Positioning	A system which enables a person to work supported in suspension by the use of Personal Protective Equipment (PPE) in such a way that a fall is partially restrained.
Fall Arrest	A system whereby a person is safely arrested from a fall by means of Personal Protective Equipment attached to an anchorage point. The maximum free fall allowance is 2 metres.
Fall Clearances	The system must be set up in such a way that the worker will avoid striking a lower level surface or obstacle, and be maintained in a position post fall, to ensure an easy and quick rescue. Each type of fall arrest device will have its own clearance requirements – check AS/NZS 1891.4 for further information.



# HIERARCHY OF FALL-ARREST OPTIONS



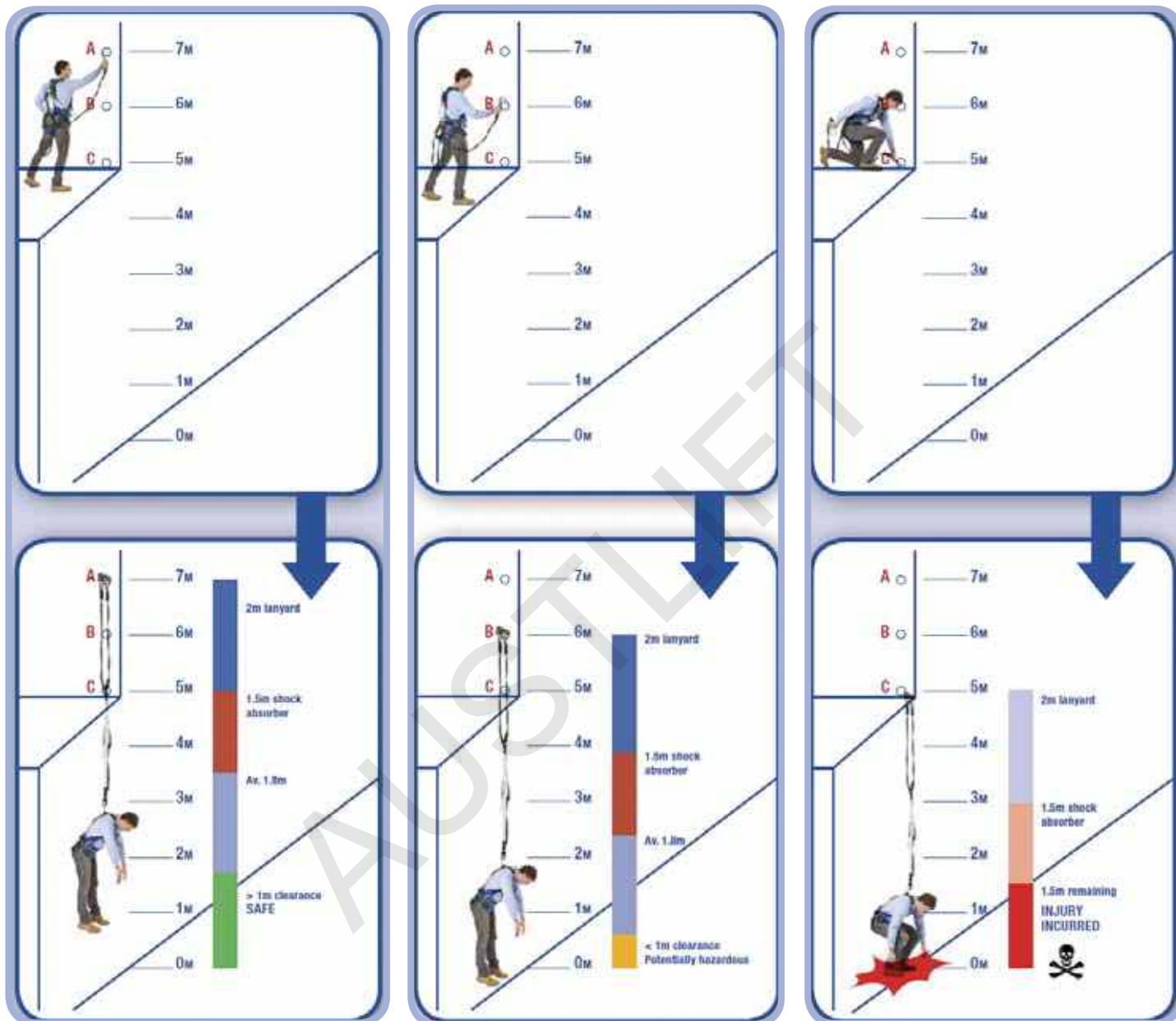
**CHARACTERISTICS OF VARIOUS RESTRAINT/FALL SITUATIONS**

Restraint/fall situation	System description	Equipment & Anchorage requirements (minimum) (see Notes 1 and 4)	Typical application
<p>Restraint technique</p> 	<p>A combination of anchorage placement and lanyard length adjustment which will not physically permit the operator to reach a fall risk position (see Note 2) unless the lanyard is incorrectly adjusted.</p>	<p>Fall-arrest rated equipment as follows: Where any possible fall will only be a limited free fall (&lt;600 mm), a lower-body harness and anchorage with ultimate strength 12kN. All other cases, a full-body harness and anchorage with ultimate strength 15 kN.</p>	<p>Any situation where access to the work can be achieved entirely on a working surface with secure footing and without exposure to a fall provided that the equipment is correctly adjusted.</p>
<p>Restrained fall only</p> 	<p>A pole-strap of length which will permit only a restrained fall when working on a pole.</p>	<p>Full-body or lower-body harness and pole strap.</p>	<p>Working on a pole where no free fall is possible.</p>
<p>Limited free fall</p> 	<p>A combination of anchorage placement and lanyard length which will permit only a limited free fall (&lt; 600 mm).</p>	<p>Full-body or lower-body harness. Lanyard or fall-arrest device that will limit free-fall to 600 mm max. (See Note 2). 12 kN ultimate strength anchorage or equivalent horizontal lifeline or rail.</p>	<p>Any situation where the use of either a short lanyard or a fall-arrest device (or both where applicable) will limit any free fall to 600 mm. May also be applicable to rope access systems, see AS/NZS 4488.2.</p>
<p>Free fall</p> 	<p>Any suitable fall-arrest system.</p>	<p>Full-body harness. Lanyard or fall-arrest device which will limit free fall to 2 m max. (see Note 2). 15 kN ultimate strength anchorage or equivalent horizontal lifeline or rail.</p>	<p>Any situation in which a free fall (&gt; 600 mm) is possible.</p>
<p>Total restraint</p> 	<p>A system where no fall is possible.</p>	<p>Not specified in the AS/NZS 1891 Series of Standards (see Note 3).</p>	<p>Total restraint is defined as the control on a person's movement by means of a connection to an anchorage in such a way that it will physically prevent the person from reaching any position at which there is risk of a fall, either over an edge, through a surface or due to a failed moveable platform.</p>

**NOTES:**

1. Fall protection work practices not in accordance with this Standard, in particular, the use of non-complying personal equipment (e.g. lanyards without specified energy absorbing properties), may create fall-arrest forces which will exceed the anchorage strengths specified in the Table.
2. See also "Know your minimum fall clearance" (MFC). Refer to Page 09.
3. Whilst no equipment is specified, fall-arrest rated equipment can be used.
4. 'Ultimate strength' means that the anchorage may yield at the stated load but must not fail.

## KNOW YOUR MINIMUM FREE SPACE (MFS)



- The Formula to calculate for minimum free fall:

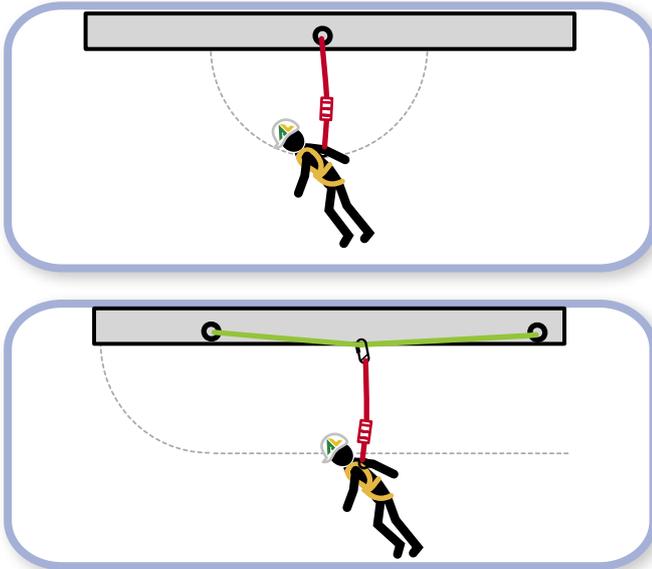
Lanyard Length + Shock Absorber Length + Harness Stretch + Distance between harness attachment point and upper back + Safety clearance at bottom of fall.

Lanyard length maximum allowable = 2.0m, Shock Absorber = 1.75m in length, Rule of thumb for the sum of Harness stretch+ attachment point to upper back is 1.8m.

We recommend that the Safety Clearance is given a value of 1m. To illustrate a worst case scenario, which is when the anchor point is at the user's feet, so the MFS is calculated using the following formula:

Lanyard Length + Shock Absorber = 2m + 1.75m; AND the sum of Stretch & The Attachment point to Upper Back Distance = 1.8m; THEN add to this your Safety Clearance of 0.4m; THEN this will give you an MFS of 5.75m (FIVE point SEVEN FIVE meters) in this worst case example (see diagrams above.)

**Restraint Technique**



- **Restraint technique**  
Suitable for use where the user can maintain secure footing as set out without having to tension the lanyard. Despite the requirement to equip the user for fall arrest, restraint technique should be employed whenever practicable providing an extra level of safety by reducing the potential for exposure to falls.

- **Working on slopes and work positioning**  
Where a user at risk of a fall can maintain secure footing on a sloping surface without tensioning the lanyard or safety line, or requiring additional support such as hand hold, fall arrest equipment attached to anchorages of commensurate strength shall be used. Factors that need to be considered as to whether secure footing can be maintained are as follows:

**The degree of slope.**

Slopes in excess of 15° from the horizontal should always be checked for risk of a fall.

**Surface slipperiness or skid resistance**, change from dry to wet conditions and whether the surface is likely to be oily or otherwise slippery.

**Surface roughness** likely to become a tripping hazard.

**Security** when carrying heavy loads or operating hand held equipment.

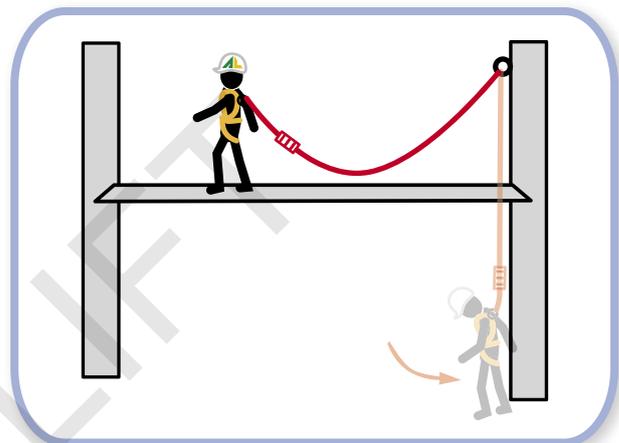
**Unusual weather conditions**, high winds, snow, ice or frost.

**The grip provided by footwear**, e.g. Sole material and tread pattern.

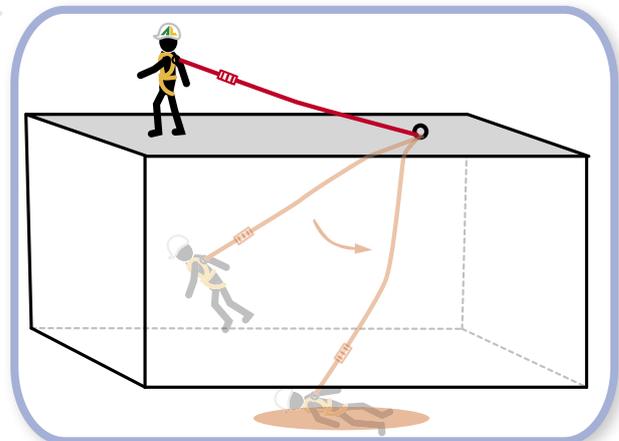
Where a user cannot maintain secure footing without the aid of lateral support alternative means of access or support shall be provided, e.g. a harness and pole strap, a walkway in accordance with AS 1657 or a work positioning system such as a rope access system in accordance with AS/NZS 4488.2.

**AVOIDING LATERAL SWING (THE PENDULUM EFFECT)**

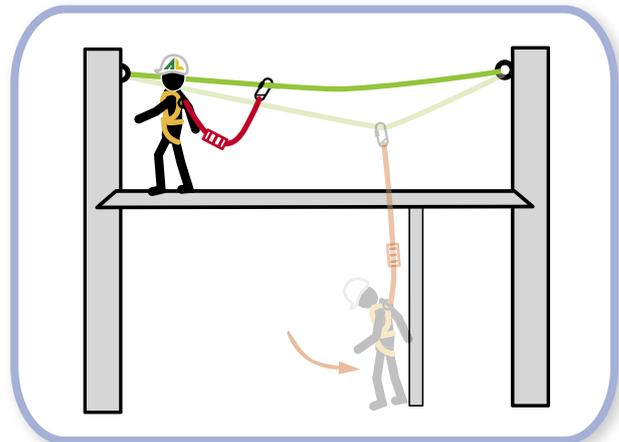
- **Be aware of the pendulum effect**  
Ensure precaution is taken to avoid any possibility of a fall taking place and subsequently the person swinging into a structure or the ground.



SIMPLE EFFECT



ANCHORAGE LINE SLIDING ALONG EDGE



FALL FROM A HORIZONTAL LIFELINE

## STRENGTH REQUIREMENT FOR ANCHORAGES

Purpose of Anchorages	Minimum Ultimate strength in direction of loading (kilonewtons)
Free fall-arrest-One person	15 kN
Free fall-arrest-Two persons attached to same anchor.	21 kN
Limited free fall-arrest (including rope access anchorages)	12 kN
Restraint technique	15 kN for free fall risk 12 kN for limited free fall risk
Horizontal Life Lines	Minimum Ultimate strength in direction of loading (kilonewtons)
End Anchorages (See Manufactures Recommendations)	Greater than 15 kN Single person Greater than 21 kN Multiple persons
Intermediate anchorages -diversion less than 15°	12 kN
Intermediate anchorages -diversion more than 15°	Greater than 12 kN (multiplied by a safety factor of 2.0)
<b>NOTE</b>	
As far as practicable all single point one-person anchorages should meet the 15kN requirements regardless of primary purpose.	
‘Ultimate strength’ means that the anchorage may yield at the stated load but must not fail.	



### Anchor Points Information

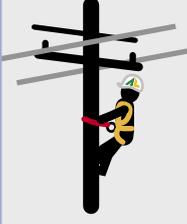


- Ensure the anchor points on a building or structure used by the operator are certified by an engineer, unless it is clear to a height safety supervisor the anchorage system is structurally sound also signage with anchor information shall be provided.
- Use table provided to ensure the anchorage is capable of sustaining the ultimate load for one person to use when loaded in the direction of the lanyard, anchorage line, or restraint line during fall arrest.
- For two people utilizing one anchor point the load requirement for the anchorage shall be increased to a minimum of 21kN and no more than two people shall use a single anchor at any time.
- Be aware of free fall situation using anchorages. This applies to a Free Fall-Arrest where fall situation > 600mm and for Limited Free Fall where fall situation is < 600mm and you should not climb above a anchor point.
- From the anchor point observe any lower obstruction in a fall situation that the operator may strike into eg; machinery, open window etc.
- If an anchor looks damage it should be recertified by a competent person before using.
- If in doubt about anchorages check with the manufacture and/or refer to AS/NZS 1891.4



**Warning Only authorized personnel can install and certify roofing anchors.**

## UNDERSTAND YOUR WORK APPLICATION WITH PERSONAL PROTECTION EQUIPMENT

Work Application	Before working at heights a full risk assessment and work method shall be completed to understand the proper use and limitations of PPE equipment.  Be aware of these safety points	PPE Products  Harness Connection Anchor
	<ul style="list-style-type: none"> <li>• Ensure anchor points are correctly installed, fitted and are suitability rated and certified.</li> <li>• When using rope &amp; rope grabs always ensure the rope line is taught from both anchor points.</li> <li>• Shock absorber connection shall be between Harness Frontal or Rear attachments and rope grab via Karabiner.</li> <li>• Make sure you utilize Rear Dee or Frontal Dees of your harness while working at all times.</li> <li>• If there are no anchor points present you should use an appropriate anchorage system to a suitable structure ensuring the structure can support a fall arrest situation.</li> </ul>	<p>Full body harness with frontal &amp; rear attachments. Approved Rope &amp; rope adjuster with shock absorber pack. Temporary metal roof anchor or Anchorage sling.</p>
	<ul style="list-style-type: none"> <li>• For fixed ladder safety lines ensure it has been certified, maintained and operating satisfactory before use.</li> <li>• With mobile ladders ensure the ladder has been secured properly with certified ladder brackets.</li> <li>• Use certified anchor systems such as anchor strap, fixed anchor point or temporary anchor point.</li> <li>• Ensure safety rope line is correctly tied off and rope grab is fixed to frontal connection points of harness with Karabiner.</li> <li>• Always use a full body harness and twin lanyard with shock absorber for ladder work.</li> </ul>	<p>Full body harness with frontal &amp; rear attachments. Twin lanyard with shock absorber. Approved Rope &amp; rope adjuster. Anchorage sling, Tempory Ladder &amp; bracket .</p>
	<ul style="list-style-type: none"> <li>• Ensure anchor points are correctly installed, fitted and are suitability rated and certified.</li> <li>• When using rope &amp; rope grabs always ensure the rope line is taught from the anchor points.</li> <li>• Ensure fall arrest systems have been regularly serviced and in good working condition.</li> <li>• Use Single lanyard or twin elasticized lanyards with shock absorber</li> <li>• Make sure you utilize Rear Dee or Frontal Dees of your harness whilst working at heights.</li> <li>• With static lines ensure the system is certified and in good condition and working order.</li> </ul>	<p>Full body harness with frontal &amp; rear attachments. Single or Twin lanyard with shock absorber. Approved Rope &amp; rope adjuster. Suitable Inertia reels Anchorage sling, Metal roof anchor.</p>
	<ul style="list-style-type: none"> <li>• Ensure anchor points are correctly installed, fitted and are rated and certified.</li> <li>• When using rope &amp; rope grabs always ensure the rope line is taught from the anchor points.</li> <li>• Ensure fall arrest equipment has been regularly serviced and in good working condition.</li> <li>• Make sure you utilize rear Dee of your harness with twin lanyard and belay loops with pole strap of your harness whilst working at heights.</li> <li>• With permanent ladder systems ensure the structure is certified and in good condition and working order.</li> </ul>	<p>Full body Tower workers harness. Twin lanyard with shock absorber. Suitable Inertia reel. Approved Rope &amp; rope adjuster. Adjustable Pole straps Anchorage sling.</p>
	<ul style="list-style-type: none"> <li>• Ensure anchor points and Elevated Work Platforms are correctly installed, fitted and are suitability rated and certified.</li> <li>• Ensure fall arrest equipment has been regularly inspected, serviced and in good working condition.</li> <li>• Make sure you utilize rear Dee or side Dees of your harness with either webbing, adjustable or elastic single lanyard of your harness whilst working at heights.</li> </ul>	<p>Full body harness with frontal &amp; rear attachments. Single lanyard with shock absorber.</p>
	<ul style="list-style-type: none"> <li>• Ensure confined space and/or rescue equipment is being regularly inspected, serviced and in good working condition</li> <li>• Ensure Tripod or Davit system are correctly installed, fitted and are suitability rated and certified.</li> <li>• Prior to use, inspect Inertia Reel and Rescue Winch to ensure they are in good working condition.</li> <li>• Make sure you utilize the rescue loops for rescue operation of your harness and rear Dee in a confined space situation.</li> <li>• With spreader bar the arm straps should be utilized.</li> </ul>	<p>Full body harness with rear attachment and shoulder confined space loops. Rescue winch devise. Confined space spreader bar. Tripod or Davit arm.</p>

### EASY HARNESS SELECTION GUIDE

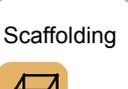
HARNESS		STANDARD RANGE		TRADESMAN RANGE		ULTIMATE RANGE		
Harness Name		Compliance Plus Harness	Compliance Plus with 1.5 Lanyard	Riggers with Belay Loof Harness	Multi Purpose Harness	Riggers Harness	Multi Purpose Harness	Tower Worker Harness
Harness Part Number		914060	914059	914062	914064	914065	914066	914067
Material		Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester
Rear Dee Ring		✓	✓	✓	✓	✓	✓	✓
Frontal Belay Loops		✓	✓	✓	✓	✓	✓	✓
Confined Space Shoulder Loops				✓	✓	✓	✓	✓
Larger Side Dee Rings					✓		✓	✓
Trauma Strap Fitted				✓	✓	✓	✓	✓
Slotted Buckles		✓	✓	✓	✓			
Quick Release Buckles						✓	✓	✓
Back Padded Triangle				✓	✓	✓	✓	✓
Padded Under Buckles				✓	✓	✓	✓	✓
Waist Leg & Rear Belt Padding						✓	✓	✓
Reflective Stitching		✓	✓	✓	✓	✓	✓	✓
Certified & Approved To AS/NZS 1891.1		✓	✓	✓	✓	✓	✓	✓
WORK APPLICATION	Rear Dee							
	Frontal Attachment							
	Confined Space							
	Positioning Restraint							
	Construction Maintenance							
	Ladder Work							
	Scaffolding							
	Warehouse							
	Roofing Work							
	Utilities							
	Tower Work							
	Work Platforms							

## Selection made easy with Austlift Harness

We have developed Symbols to aid you in selecting the right harness to suit your particular work application requirement. These symbols represent work application and harness attachments.

This catalogue also utilizes these unique symbols throughout the Personal Protection Equipment range to best describe your particular work application. If you have any further questions regarding your Personal Protection needs or require further information you can contact your local distributor or Australian Lifting Centre Sydney Head Office on 1300 100 120



 Rear Dee	 Frontal Attachment	 Confined Space/Rescue	 Positioning Restraint	 Construction	 Ladder Work
 Scaffolding	 Warehouse	 Roofing Work	 Utilities	 Tower Work	 Elevated Work Platforms



## ULTIMATE – RIGGERS FALL ARREST HARNESS

### FEATURE SYMBOLS:



- Large permanently upright “D” ring fall arrest rated
- Quick release buckles
- Shoulder, back and leg padding
- Padding under buckles for extra comfort
- Fall arrest frontal belay loops for work positioning and rescue
- Confined space shoulder loops
- Reflective stitching on ALL harness designs
- Medically approved suspension trauma strap
- Certified & Approved to AS/NZS 1891.1

PART NUMBER: 914065



### SUITABLE FOR:

Confined Space / Rescue, Construction, Ladder Work, Scaffolding, Warehouse



## ULTIMATE – MULTIPURPOSE FALL ARREST HARNESS

### FEATURE SYMBOLS:



- Large permanently upright “D” ring fall arrest rated
- Quick release buckles
- Shoulder, back and leg padding
- Padding under buckles for extra comfort
- Fall arrest frontal belay loops for work positioning and rescue
- Confined space shoulder loops
- Waist belt with large side “D” rings for work positioning
- Padded lower waist & back belt for extra comfort
- Reflective stitching on ALL harness designs
- Medically approved Suspension Trauma Strap
- Certified & Approved to AS/NZS 1891.1

PART NUMBER: 914066



### SUITABLE FOR:

Confined Space / Rescue, Construction, Ladder Work, Scaffolding, Warehouse, Positioning Restraint, Utilities



## ULTIMATE – TOWER FALL ARREST HARNESS

**FEATURE SYMBOLS:**



- Large permanently upright “D” ring fall arrest rated
- Quick release buckles
- Shoulder, back and leg padding
- Padding under buckles for extra comfort
- Fall arrest frontal belay loops for work positioning and rescue
- Confined space shoulder loops
- Waist belt with large side “D” rings for work positioning
- Padded lower waist / back belt for extra comfort
- Padded work positioning seat for extra comfort
- Reflective stitching on ALL harness designs
- Medically approved Suspension Trauma Strap
- Certified & Approved to AS/NZS 1891.1

**SUITABLE FOR:**

Confined Space / Rescue, Construction, Ladder Work, Scaffolding, Warehouse, Positioning Restraint, Utilities, Tower Work



PART NUMBER: 914067

## COMPLIANCE PLUS-FALL ARREST HARNESS

**FEATURE SYMBOLS:**



- Large permanently upright “D” ring fall arrest rated
- Easy adjustable slotted buckles
- Fall arrest frontal belay loops for work positioning and rescue
- Reflective stitching on ALL harness designs
- Certified & Approved to AS/NZS 1891.1

**SUITABLE FOR:**

Confined Space / Rescue, Construction, Ladder Work, Scaffolding, Warehouse



PART NUMBER: 914060

## COMPLIANCE PLUS-FALL ARREST HARNESS WITH LANYARD ATTACHED

### FEATURE SYMBOLS:



- Large permanently upright “D” ring fall arrest rated
- Easy adjustable slotted buckles
- Fall arrest frontal belay loops for work positioning and rescue
- 1.5m shock absorbing lanyard with snap hook attached
- Reflective stitching on ALL harness designs
- Certified & Approved to AS/NZS 1891.1

PART NUMBER: 914059

### SUITABLE FOR:

Confined Space / Rescue, Construction, Ladder Work, Scaffolding, Warehouse.



## TRADESMAN-RIGGERS FALL ARREST HARNESS

### FEATURE SYMBOLS:



- Large permanently upright “D” ring fall arrest rated
- Easy adjustable slotted buckles
- Padding under buckles for extra comfort
- Back padded triangle for comfort and shape
- Fall arrest frontal belay loops for work positioning and rescue
- Confined space shoulder loops
- Reflective stitching on ALL harness designs
- Medically approved Suspension Trauma Strap
- Certified & Approved to AS/NZS 1891.1

PART NUMBER: 914062

### SUITABLE FOR:

Confined Space / Rescue, Construction, Ladder Work, Scaffolding, Warehouse, Roofing Work



**TRADESMAN- MULTIPURPOSE FALL ARREST HARNESS**

**FEATURE SYMBOLS:**



- Large permanently upright “D” ring fall arrest rated
- Easy adjustable slotted buckles
- Padding under buckles for extra comfort
- Back padded triangle for comfort and shape
- Fall arrest frontal belay loops for work positioning and rescue
- Confined space shoulder loops
- Waist belt with large side “D” rings for work positioning
- Reflective stitching on ALL harness designs
- Medically approved Suspension Trauma Strap
- Certified & Approved to AS/NZS 1891.1

**SUITABLE FOR:**

Confined Space / Rescue, Construction, Ladder Work, Scaffolding, Warehouse, Positioning Restraint, Utilities, Tower Work



PART NUMBER: 914064



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Personal Protection Accessory Selection Chart

WORK TO BE PERFORMED		Fall Arrest	Frontal Attachment	Positioning Restraint	Confined Space/ Rescue	Scaffolding	Warehouse	Construction	Utilities	Ladder Work	Roofing	Tower Work	Elevated Work Platform
Part Numbers	Description												
914015	Single Lanyard -1.5m webbing lanyard with shock absorber and snap hooks	✓					✓	✓	✓			✓	✓
914020	Single Lanyard -2m webbing lanyard with shock absorber and snap hooks	✓					✓	✓	✓			✓	✓
914021	Single Lanyard -2m webbing lanyard with shock absorber and snap hook and scaffolding hook	✓				✓	✓	✓	✓			✓	✓
914022	Single Lanyard -2m webbing lanyard with shock absorber and karabiners	✓					✓	✓	✓			✓	✓
914025	Single Elasticised Lanyard -2m elasticised webbing lanyard with shock absorber and snap hooks	✓					✓	✓	✓			✓	✓
914026	Single Elasticised Lanyard -2m elasticised webbing lanyard with shock absorber, snap hook and scaffold hook	✓				✓	✓	✓	✓			✓	✓
914028	Twin Elasticised Lanyard -2m elasticised webbing lanyard with shock absorber and snap hooks all round	✓					✓	✓	✓			✓	✓
914027	Twin Elasticised Lanyard -2m elasticised webbing lanyard with shock absorber, snap hook and scaffold hooks	✓				✓	✓	✓	✓			✓	✓
914023	Twin Lanyard -2m webbing lanyard with shock absorber and snap hooks all round	✓				✓	✓	✓	✓			✓	✓
914024	Twin Lanyard -2m webbing lanyard with shock absorber and snap hook and scaffolding hooks	✓				✓	✓	✓	✓			✓	✓

## Personal Protection Accessory Selection Chart

Part Numbers	Description	Fall Arrest	Frontal Attachment	Positioning Restraint	Confined Space / Rescue	Scaffolding	Warehouse	Construction	Utilities	Ladder Work	Roofing	Tower Work	Work Platforms
914029	Twin Lanyard - 2m wire lanyard with Shock Absorber, karabiner and 2 scaffolding hooks					✓	✓	✓	✓	✓			✓
914035	Adjustable Lanyard with Shock Absorber	✓					✓	✓	✓			✓	✓
914034	Pole Strap			✓									
914030	300mm Shock Absorber									✓	✓		
914043=15M 914044=20M 914045=25M 914046=30M 914047=40M 914048=60M	Anchor Line made from Polyester Rope with Fixed Rope Grab comes in 15, 20, 25, 30, 40, 60 metre lengths	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
914049=15M 914050=20M 914051=30M 914052=40M	Anchor Line made from Kernmantle Rope with Fixed Rope Grab comes in 15, 20, 30, 40 metre lengths	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
914032	2m webbing interlocking Anchor Strap					✓	✓	✓	✓	✓	✓	✓	✓
914038	1.5m Webbing Sling					✓	✓	✓	✓	✓	✓	✓	✓
914039	Dorsal Extension	✓					✓	✓	✓		✓	✓	
914037	Add-on Suspension Trauma Strap	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
914040	20m Temporary Webbing Lifeline line - 2 man rated	✓	✓	✓		✓	✓	✓	✓		✓		
914036	Confined Spaces Lifting Sling				✓								
914041	Tripod - 4 attaching points with carry bag				✓								
914042	Rescue Winch 20m				✓								
914076	Inertia Reel 2.25m Webbing	✓			✓	✓	✓	✓	✓			✓	
914077	Inertia Reel 3m Webbing	✓			✓	✓	✓	✓	✓			✓	
914078	Inertia Reel 6m Webbing	✓			✓	✓	✓	✓	✓			✓	
914079	Inertia Reel 6m Wire	✓			✓	✓	✓	✓	✓			✓	
914080	Inertia Reel 15m Wire	✓			✓	✓	✓	✓	✓			✓	
914081	Inertia Reel 28m Wire	✓			✓	✓	✓	✓	✓			✓	

Provided work application and attachment symbols to assist in the selection of our PPE accessories range. The following table provides an overview of products such as Lanyards, Anchorage Products, Fall Arrest Products, Connection Equipment, Confined Space and Rescue Products.

### SINGLE LANYARD SNAP HOOKS



- 1.5mtr x 44mm or 2.0mtr x 44mm polyester folded webbing
- 25mm double action snap hooks both ends
- Integral energy shock absorber
- Certified product and complies to AS 1891.1

PART NUMBER: 914015 FOR 1.5M  
PART NUMBER: 914020 FOR 2M

### SINGLE LANYARD SNAP & SCAFFOLD



- 2.0mtr x 44mm polyester folded webbing
- Double action 25mm snap & 58mm scaffold hook
- Integral energy shock absorber
- Certified product and complies to AS 1891.1

PART NUMBER: 914021

### SINGLE LANYARD KARABINERS



- 2.0m x 44mm polyester folded webbing
- 18mm double action karabiner both ends
- Integral energy shock absorber
- Certified product and complies to AS 1891.1

PART NUMBER: 914022

### SINGLE ELASTICISED LANYARD SNAP HOOKS



- 2.0mtr unextended elasticised inner core
- External load bearing tubular polyester webbing
- Integral energy shock absorber
- 25mm double action snap hooks both ends
- Certified product and complies to AS 1891.1

PART NUMBER: 914025

### SINGLE ELASTICISED LANYARD SNAP & SCAFFOLD



- 2.0mtr unextended elasticised inner core
- External load bearing tubular polyester webbing
- Integral energy shock absorber
- Double action 25mm snap & 58mm scaffold hook
- Certified product and complies to AS 1891.1

PART NUMBER: 914026

### TWIN ELASTICISED LANYARD SNAP & SCAFFOLD



- 2.0mtr unextended elasticised inner core
- External load bearing tubular polyester webbing
- Integral energy shock absorber
- Double action 25mm snap & 58mm scaffold hook
- Certified product and complies to AS 1891.1

PART NUMBER: 914027

**TWIN ELASTICISED LANYARD SNAP HOOKS**



- 2.0mtr Twin unextended elasticised inner core
- External load bearing tubular polyester webbing
- Integral energy Shock Absorber
- 25mm double action snap hooks all round
- Certified product and complies to AS 1891.1

PART NUMBER: 914028

**TWIN LANYARD SNAP HOOKS**



- 2.0mtr x 44mm polyester folded webbing
- 25mm double action snap hooks all round
- Integral energy Shock Absorber
- Certified product and complies to AS 1891.1

PART NUMBER: 914023

**TWIN LANYARD SNAP & SCAFFOLD**



- 2.0mtr x 44mm polyester folded webbing
- Double action 25mm snap & 58mm scaffold hooks
- Integral energy Shock Absorber
- Certified product and complies to AS 1891.1

PART NUMBER: 914024

**TWIN LANYARD KARABINER & SCAFFOLD**



- 2.0mtr x 6mm PVC coated G316 stainless steel wire rope
- Double action 18mm karabiner & 58mm scaffold hooks
- Integral energy Shock Absorber
- Certified product and complies to AS 1891.1

PART NUMBER: 914029

**ADJUSTABLE SINGLE LANYARD SNAP HOOKS**



- 2.0mtr x 44mm easy adjustable lanyard
- 25mm double action snap hook each end
- Integral energy Shock Absorber
- Certified product and complies to AS 1891.1

PART NUMBER: 914035

**POLE STRAP KARABINERS**



- 2.0mtr x 44mm easy adjustable lanyard with protective sleeve
- Double action 25mm snap hook each end
- Certified product and complies to AS 1891.1

PART NUMBER: 914034

**KARABINER**

- Forged steel
- 18mm Opening
- Screw Gate Type
- Single Action
- 30kN strength



PART NUMBER: 914085

**KARABINER**

- Forged steel
- 18mm Opening
- Twist Lock Gate
- Double Action Type
- 30kN strength



PART NUMBER: 914086

**KARABINER**

- Forged steel
- 15mm Opening
- Triple Action Type
- 30kN strength



PART NUMBER: 914087

**KARABINER**

- Forged steel
- 22mm Opening
- Triple Action Type
- 30kN strength



PART NUMBER: 914088

**SNAP HOOK**

- Double action snap hook.
- Forged alloy steel.
- 60mm opening
- Rated to 25kN



PART NUMBER: 914089

**SCAFFOLD HOOK**

- Double action scaffold hook
- Forged alloy steel
- 60mm opening
- Rated to 25kN



PART NUMBER: 914090

**DORSAL EXTENSION**

- 300mm Dorsal Extension strap
- Comes with steel Dee ring
- Suits any harness



PART NUMBER: 914039

**TRAUMA STRAP ACCESSORY**

- Adjustable suspension strap
- Quick connection buckles
- Connects to any harness



PART NUMBER: 914037

**TEMPORARY LADDER BRACKET**

- Suits most portable ladders and gutter systems.
- Locks onto roof or gutters stops slippage from ladders.
- Warning and instruction signage



PART NUMBER: 914092

**TOOL HOLDER STRAP**

- Lightweight webbing with cord one end for tool attachment.
- Adjustable wrists strap other end for connection to user
- 200mm length and a maximum tool weight of 5kg



PART NUMBER: 914095

**SHOCK ABSORBER PACK**

- Internal energy shock absorber
- Screwgate (Double action optional)
- 18mm Karabiner's each end
- Certified product and complies to AS 1891.1



PART NUMBER: 914030

**PERMANENT LADDER BRACKET**

- Suits most fixed ladder systems
- Locks onto roof or gutters stops slippage from ladders
- Warning and instruction signage



PART NUMBER: 914118

### ANCHORAGE LINE



- 13mm Polyester Anchorage Line
- Type A Steel Fall Arrester device
- 25mm double action snap hook (optional)

PART NUMBER: 914043- 15M  
 PART NUMBER: 914044- 20M  
 PART NUMBER: 914045- 25M  
 PART NUMBER: 914046- 30M  
 PART NUMBER: 914047- 40M  
 PART NUMBER: 914048- 60M

### ANCHORAGE LINE



- 11mm Kernmantle Anchorage Line
- Type A Steel Fall Arrester device
- 25mm double action snap hook (optional)

PART NUMBER: 914049- 15M  
 PART NUMBER: 914050- 20M  
 PART NUMBER: 914051- 30M  
 PART NUMBER: 914052- 40M

### INTERLOCKING ANCHORAGE SLING



- 2 metre webbing with protective sleeve rated to 22kN
- Large & Small Dee ring each end
- Single person use only with attachment via small Dee ring

PART NUMBER: 914032

### TIE-OFF ANCHOR SLING



- 1.5 metre webbing rated to 22 kN
- Polyester webbing material
- Single person use only

PART NUMBER: 914033

### LARGE TONG ANCHORAGE



- Used to hook personal protective equipment to a structure
- Tong opening style anchorage connector
- Suitable for one person anchorage 15kN
- Large size to suit a structure up to 112mm in diameter

PART NUMBER: 914091

### TEMPORARY ANCHOR POINT METAL ROOF



- Right angled anchor plate Clamps securely onto a roof edge
- Curved arm suited to corrugated roofs
- Screws down for additional stability
- Single person anchorage point

PART NUMBER: 914093

**PERMANENT ROPE GRAB**



- Type A fall arrest device which locks off on the rope at any point.
- Suits 13mm polyester rope or 11mm Kernmantle rope
- Manually operated to move up and down the rope line

PART NUMBER: 914084

**REMOVABLE ROPE GRAB**



- Type B removable fall arrest device
- Disengaging function that can be attached to rope at any point
- Manually operated to move up and down the rope line
- Suits both 13mm polyester rope or 11mm Kernmantle rope

PART NUMBER: 914083

**VERTICAL WIRE ROPE GRAB**

Rescue Product



- Type C removable Anti corrosive Stainless Steel fall arrest device
- Disengaging function that can be attached to rope at any point
- Manually operated to move up and down the rope line
- Suitable for vertical application for 8mm wire rope

PART NUMBER: 914082

**WEBBING INERTIA REEL**



- Lightweight and compact in design
- Made from corrosion resistant components
- 2.25m of working capacity Webbing
- Karabiner and double action snap hook included
- Integral energy shock absorber
- Quick activating breaking system limiting free fall

PART NUMBER: 914076-1.27kg

**WEBBING INERTIA REEL**



- Lightweight and compact in design
- Made from corrosion resistant components
- 3m of working capacity Polyester Webbing
- Swivel double action snap hook with fall indicator
- Quick activating breaking system limiting free fall

PART NUMBER: 914077-1.5kg

**WEBBING INERTIA REEL**



- Lightweight durable and compact in design.
- Made from sturdy plastic casing with rubber grip handle.
- Built in shock absorber limits fall forces to under 6kN.
- 6m of working capacity Polyester/Kevlar Webbing
- Double action swivel snap hook with built in fall indicator.
- Quick activating breaking system limiting free fall.

PART NUMBER: 914076-1.27kg

**WIRE ROPE INERTIA REEL**



- Lightweight, durable and compact in design.
- Made from sturdy plastic casing with rubber grip handle.
- Built in shock absorber limits fall forces to under 6kN.
- Available in 6 metre, 15 metre or 28 metre
- 4mm of working capacity galvanized wire cable.
- Double action swivel snap hook with built in fall indicator.
- Quick activating breaking system limiting free fall

PART NUMBER: 914079 6M – 5.1kg  
 PART NUMBER: 914080 15M -6.1kg  
 PART NUMBER: 914081 28M -8.2kg

**TEMPORARY WEBBING STATIC LINE KIT**



- 20 metre webbing with ratchet tensioner
- Kit comes with anchor straps & karabiners
- Complete with storage bag sewn in line
- Rated for two persons

PART NUMBER: 914040

**CONFINED SPACES LIFTING SLING**



- Top Dee ring used for raising or lowering
- Double action 25mm snap hooks attaches to confined space loops of a harness
- Built in arm strap for retrieval in confined situation

PART NUMBER: 914036

**TRIPOD**



- Working load limit 500kg.
- Lightweight, high strength aluminium construction.
- Adjustable legs(1.3m to 2.3m) with integral push pins and locking feature holds legs securely in place.
- Rubber serrated skid pads prevent slippage in use.
- Anchorage/4 attaching points eye rated to 22kN in a vertical pull.
- Supplied with carry bag

PART NUMBER: 914041

**RESCUE WINCH**



- Rescue lifting lowering device
- Comes with 20 metre wire rope
- Swivel double action snap hook
- Ready to mount to tripod leg with bracket included.
- Study construction work load to 180kg.
- Use winch for emergency evacuation only.
- Not to be used for work positioning.
- Safety auto brake mechanism .

PART NUMBER: 914042

**HARNES KIT SELECTION CHART**

The Personal Protection Kit range AUSTLIFT has to offer will provide a safety solution to suit every work environment and take the guess work out of Personal Protection Kit's. We have provided our application and harness attachment symbols to assist in the correct product selection for specific work applications. There is also a list of components for each kit.

 Rear Dee	 Frontal Attachment	 Confined Space/Rescue	 Positioning Restraint	 Construction Maintenance	 Ladder Work
 Scaffolding	 Warehouse	 Roofing Work	 Utilities	 Tower Work	 Elevated Work Platform



**SAFETY IN A SACK**



- 1x Compliance Plus Harness
- 1x 2m Webbed Lanyard
- 1x Interlocking Anchor Strap
- 1x Carry bag

PART NUMBER: 914072

**BASIC WITH COMPLIANCE PLUS**



- 1x Compliance Plus Harness
- 1x 15m Polyester Rope and Rope Grab
- 1x Shock Absoder
- 2x Karabiners
- 1x Interlocking Anchor Strap
- 1x Carry bag

PART NUMBER: 914073

**ROOF WORKER KIT**



- 1x Tradesman Riggers Harness
- 1x 15m Kermantle Rope & Rope Grab
- 1x Shock Absorber
- 2x Karabiners
- 1x Interlocking Anchor Strap
- 1x Carry bag

PART NUMBER: 914074

**ROOF WORKER KIT RETRACTABLE LANYARD**



- 1x Riggers Harness
- 1x 15m Kermantle Rope & Rope Grab
- 2x Karabiners
- 1x Anchor Strap
- 1x 2.25m Retractable Lanyard
- 1x Carry bag

PART NUMBER: 914075

**PROFESSIONAL KIT**



- 1x Tradesman Multipurpose Harness
- 1x15m Kernmantle Rope and Rope Grab
- 1x Shock Absorber
- 2x Karabiners
- 1x Interlocking Anchor Strap
- 1x Pole Strap
- 1x 2m Twin Lanyard with Shock Absorber and Snap Hooks
- 1x Carry bag

PART NUMBER: 914068

**ULTIMATE PROFESSIONAL KIT**



- 1x Ultimate Multipurpose Harness
- 1x 15m Kernmantle Rope and Rope Grab
- 1x Shock Absorber
- 2x Karabiners
- 1x Interlocking Anchor Strap
- 1x Pole Strap
- 1x 2m Twin Lanyard with Shock Absorber
- 1x Carry bag

PART NUMBER: 914070

**ULTIMATE ROOF WORKER KIT**



- 1x Ultimate Riggers Harness
- 1x 15m kernmantle Rope and Rope Grab
- 1x Shock Absorber
- 2x Karabiners
- 1x Interlocking Anchor Strap
- 1x Carry bag

PART NUMBER: 914069

**CONFINED SPACES PROFESSIONAL KIT**



- 1x Tripod with 4 Anchor Points
- 1x Ultimate Multipurpose Harness
- 1x 20m Rescue Winch
- 1x15m Inertia Reel
- 2x Karabiners
- 1x Spreader Bar
- 1x Heavy duty carry bag

PART NUMBER: 914071

**STANDARD PROFILE ANCHOR BOLT**



- Made from Stainless Steel construction with rubber pad
- Suitable for Metal Roof - Steel Purlins

PART NUMBER: 914096 RATED TO 22kN  
 PART NUMBER: 914097 RATED TO 44kN

**LOW PROFILE ANCHOR BOLT**



- Made from Stainless Steel construction with rubber pad
- Suitable for Metal Roof - Steel Purlins
- Rated to 22kN

PART NUMBER: 914098

**CORRUGATED ANCHOR BOLT**



- Made from Stainless Steel construction with rubber pad
- Suitable for Corrugated roof profiles

PART NUMBER: 914099 RATED TO 22kN  
 PART NUMBER: 914100 RATED TO 44kN

**SPECIAL CORRUGATED ANCHOR BOLT**



- Made from Stainless Steel construction with rubber pad
- Suitable for Metal Roof adaptable for Special Roof formations
- Rated to 22kN

PART NUMBER: 914101

**SURFACE MOUNTED ANCHOR**



- Made from Stainless Steel construction.
- Suitable for Corrugated and Trimdek Roof Profiles
- Rated to 15kN

PART NUMBER: 914102

**SURFACE MOUNTED ANCHOR**



- Made from Stainless Steel construction.
- Suitable for Corrugated and Kliplok Roof Profiles
- Rated to 15kN

PART NUMBER: 914103



**Warning Only authorized personnel can install and certify roofing anchors.**

**SURFACE MOUNTED ANCHOR**



- Made from Stainless Steel construction.
- Suitable for Corrugated and Longline Roof Profiles
- Rated to 15kN

PART NUMBER: 914104

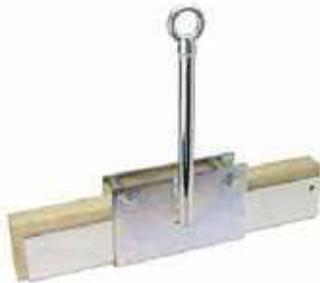
**METAL ROOF ANCHOR**



- Made from Stainless Steel construction
- Suitable for Metal Roof & 50mm by 150mm
- Timber Truss with Dekitte Flashing
- Rated to 22kN

PART NUMBER: 914116

**METAL ROOF ANCHOR**



- Made from Stainless Steel construction
- Suitable for Metal Roof & 35mm to 40mm Timber Truss with Bracing Plate and Dekitte Flashing
- Rated to 15kN

PART NUMBER: 914111

**TILE ROOF ANCHORT**



- Made from Stainless Steel construction
- Suitable for Tile Roof & 50mm Timber Truss with Acrylead Flashing
- Rated to 22kN

PART NUMBER: 914113

**METAL ROOF ANCHOR**



- Made from Stainless Steel construction
- Suitable for Metal Roof & 50mm Timber Truss with Dekitte Flashing
- Rated to 22kN

PART NUMBER: 914114

**TILE ROOF ANCHOR**



- Made from Stainless Steel construction
- Suitable for Tile Roof & 50mm by 150mm Timber Truss with Acrylead Flashing
- Rated to 22kN

PART NUMBER: 914115



**Warning Only authorized personnel can install and certify roofing anchors.**

### DEKITTE FLASHING



- Made from Stainless Steel and rubber boot construction.
- Suitable with Metal roof anchor profiles

PART NUMBER: 914112

### ACRYLEAD FLASHING



- Made from Stainless Steel and rubber boot construction.
- Suitable with Tile or Metal roof anchor profiles

PART NUMBER: 914114

### CHEMICAL SET ANCHOR



- Made from Stainless Steel construction
- Suitable for Masonry applications

PART NUMBER: 914105 rated to 22kN  
 PART NUMBER: 914106 rated to 44kN

### MECHANICAL SET ANCHOR



- Made from Stainless Steel construction
- Suitable for Masonry applications.

PART NUMBER: 914107 rated to 22kN  
 PART NUMBER: 914108 rated to 44kN

### TILE ROOF ANCHOR

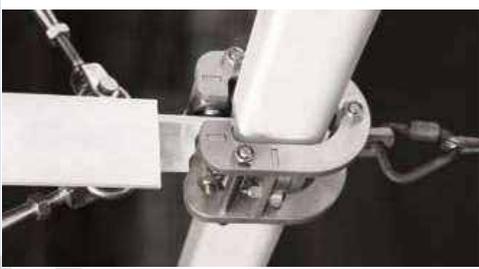


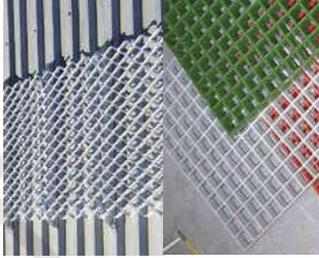
- Made from Stainless Steel construction
- Suitable for Tile Roof & 35mm to 40mm Timber Truss with Bracing Plate and Acrylead Flashing
- Rated to 15kN

PART NUMBER: 914109



**Warning Only authorized personnel can install and certify roofing anchors.**

Product Name	Description	Product	Application
<p><b>SAFETY LINES Hammerhead</b></p>	<ul style="list-style-type: none"> <li>• Easy to install with pass through technology.</li> <li>• Robust and well engineered system with minimal all Stainless Steel components.</li> <li>• Multiple system configurations (ground, overhead, side).</li> <li>• Very Cost Effective Solution.</li> <li>• Shock absorbing intermediate and end anchors capable of reducing force to structure to less than 6kN.</li> <li>• No damage to underlying structure due to shock absorption capabilities with minimal cable deflection.</li> <li>• Easy to reset system in the event of a fall without having to replace line.</li> <li>• Can be mounted on all types of roof and industrial structures.</li> </ul>		
<p><b>SAFETY LINES Safeladder</b></p>	<ul style="list-style-type: none"> <li>• All Stainless Steel components.</li> <li>• Easy to install. Can be sold in kit form.</li> <li>• User friendly safety system that provides protection while climbing ladders.</li> <li>• Ideal safety system for climbing ladders.</li> <li>• Swage less line tensioner ensures smooth cable fitting with no frayed edges or protruding cable.</li> </ul>		
<p><b>SAFETYRAIL Strongrail</b></p>	<ul style="list-style-type: none"> <li>• Very strong and robust system. Rated for 3 people at 8m spans.</li> <li>• Easy to install with minimal components and maintenance.</li> <li>• User friendly system. Free gliding movement ensures no interference is experienced by users.</li> <li>• Ideal for overhead and rope access applications.</li> <li>• Available in single or bilateral rail configurations.</li> <li>• Unique bilateral rail design significantly reduces pendulum effect and is ideal system for low clearance and obstructed areas.</li> <li>• Available in aluminium or stainless steel.</li> <li>• Very cost effective solution.</li> </ul>		

Product Name	Description	Product	Application
<p><b>SAFETYRAIL</b> Saferail</p>	<ul style="list-style-type: none"> <li>• Total protection – a continuous system that operates in vertical and horizontal mode and ensures the operator does not need to disconnect at any time whilst working at heights.</li> <li>• Quick locking and un-obstructive shuttle system.</li> <li>• User friendly safety system.</li> <li>• Ideal protection system for climbing ladders and towers.</li> <li>• Available in aluminium.</li> </ul>		
<p><b>LADDER SYSTEMS</b></p>	<ul style="list-style-type: none"> <li>• Security locking system ensures no unauthorized access to ladder.</li> <li>• Extra strong ladder spine ensures rigid construction that complies with all the requirements of Australian Standards AS/NZS 1657.</li> <li>• Roof access handles ensure safe access and egress from roof area.</li> <li>• Specially designed rung with extra grip to provide additional safety while climbing ladder.</li> <li>• Cage design can be incorporated into ladder in accordance with Australian Standards AS/NZS 1657.</li> <li>• Modular system enables ladders to be installed on-site to the required specification by a simple process of cutting and joining modular components of the ladder. Reduces installation time considerably.</li> </ul>		
<p><b>WALKWAYS</b></p>	<ul style="list-style-type: none"> <li>• Excellent chemical and corrosion resistance - Fibre glass is resistant to most common chemicals (acids, salts, alkalies) and is ideal for corrosive environments (mining, petrochemicals, water treatment, marine, food processing).</li> <li>• Lightweight and ease of installation - Fibre glass has two thirds the weight of aluminium and one quarter that of steel, together with its high strength to weight ratio makes it very manageable and easy to install.</li> <li>• Excellent safety features such as non-slip surface and high visibility.</li> <li>• Electrical and thermal non-conductivity and non-sparking.</li> <li>• Cost effective solution - Ease of use, low installation costs, long service life with minimal or no maintenance.</li> <li>• Transparent to radio frequency transmission.</li> <li>• Fire resistant.</li> </ul>		

**ULTIMATE HARNESS FITTING INSTRUCTION**



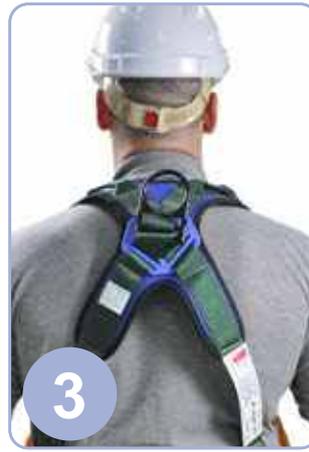
1

Inspect the Harness to ensure its fit for use. Locate the front of the harness and remove any twists or bunching in the webbing.



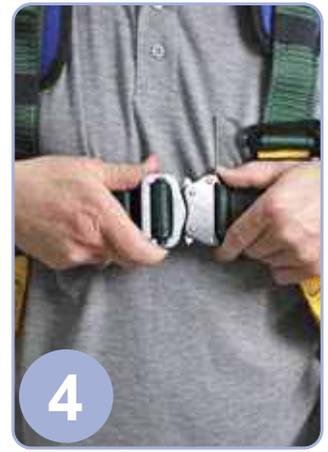
2

Slide the harness on like you would a jacket.



3

Ensure the dorsal Dee ring on the harness is located between your shoulder blades.



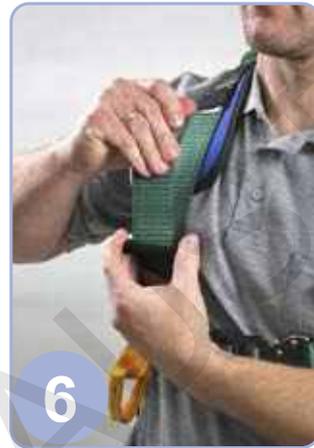
4

Connect the chest strap to secure the harness to your upper body.



5

Secure the waist strap if provided on the harness.



6

Adjust both shoulder straps to fit firmly.



7

Fit leg straps ensuring the webbing is sitting flat against the legs or padding. Always connect the left leg strap to the left leg buckle never cross them over.



8

Once fitted adjust all straps to ensure the harness is fitted securely to the body and is not loose.



9

When using the front webbing loops ensure they are always brought together and connected with an approved connector. Never use the front webbing loops singularly.



10

Once the harness is fitted correctly ask a work colleague to perform a safety inspection of the harness for you. When fitting your harness make sure that the front central chest "D" ring is centrally located on the chest.

## TRADESMAN HARNESS FITTING INSTRUCTION



1

Locate the front of the harness and remove any twists or bunching in the webbing.



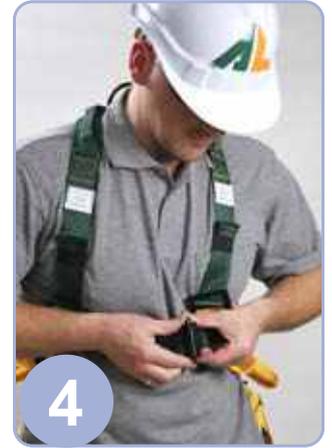
2

Slice the harness on like you would a jacket



3

The triangular back pad and Dorsal Dee should sit between your shoulder blades in the centre of your back



4

Locate the front chest strap. Place the male selection of the buckle through the female section pointy end first.



5

Adjust chest strap to fit firmly.



6

When adjusting with both shoulder straps ensure there are no twists in your harnesses webbing. At all times the webbing should sit flat against your body.



7

Once fitted adjust all straps to ensure the harness is fitted securely to the body and is not loose.



8

Once the harness is fitted correctly ask a work colleague to perform a safety inspection of the harness for you.

## TRAUMA STRAP DEPLOYMENT



**STEP 1:**

Prior to using your harness remove the Trauma Strap and familiarize yourself with the device and its operation. Adjust straps to suit your leg length. Perform all other mandatory pre start checks. Generally the required length will be 100mm shorter than your own leg length to achieve a comfortable position post fall.

Your Trauma Strap is located at the rear of the harness below your lap.

**STEP 2:** Before you expose yourself to a work environment that may result in a suspended fall make sure you know how use your Trauma Strap. It may save your life!

2

4

**STEP 3:**

To deploy the standing step remove the Velcro straps on the pouch.

6

**STEP 4:**

Locate the female buckle on the opposite side of your harness to the Trauma Strap. Let the step deploy from the pouch completely then bring the male buckle around the front of your body.



5

**STEP 5:** Hang on to the clip at the top of the pouch and let the strap fall below you.

**STEP 6:** Connect the male and female components of the buckles together until they click and are secure.

**STEP 7:**

Place your foot into the base of the Trauma Strap and adjust to a position were you are comfortable. The Trauma Strap is easily adjustable while you wait for rescue. If the base of the strap is adjusted too high you may feel discomfort. Simply lift the buckle and adjust to a more comfortable position.

Please remember the Trauma Strap has been designed for your comfort and safety and is not a substitute for an effective and fast rescue plan. Consideration should be given to every working scenario to ensure a speedy rescue is possible.



7

## HARNESSES INSPECTION

When working at height your Harness should be inspected before use. This action is an essential part of your personal safety. Follow these few simple steps as part of your routine to ensure your harness will keep you safe at work.

It is your responsibility to ensure that your Personal Protection Equipment undergo periodic inspection and/or serviced to the manufacture's recommended inspection intervals or to AS/NZS 1891 Part 4 which ever is the lesser inspection interval.

With Personal Protection Equipment that has been subjected to harsh conditions inspection intervals shall be preformed more frequently even if the set life expectancy of the product still has a long expiry date.

It is possible for the equipment to expire prematurely due to harsh environments or if the product has been exposed to frequent use.

We also recommend that a competent person perform inspection or any service work, and a written record kept in a safe place.



### STEP 1:

Check the labels for the harness serial number and ensure the serial number is legible and the date for withdrawal has not passed.

### STEP 2:

Run your hands along each piece of webbing looking for cuts, abrasions, burn marks or deterioration. Check sewn patterns looking for cuts, broken threads, heat damage and stretching



### STEP 3:

Check the buckles are functioning and inspect for distortion, cracking and damage.

### STEP 4:

Check the harness hardware Dee rings for distortion, cracking and damage.



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