

MISCHProduct Catalogue 2020

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Useful terminology

Working at height

Working at height refers to frequently high-risk work that is undertaken in any place where, if the necessary safety precautions were not in place, a person could accidentally fall and suffer a personal injury.

A hierarchy of safety measures

A risk assessment would be undertaken to determine if the work can be avoided being done at height. However, if there is no other alternative and working at height needs to be carried out, a hierarchy of measures should then be followed to prevent falls from occurring. Some of these measures may include installation of a permanent or temporary handrail, provision of a properly constructed working platform complete with guardrails. If none of these are practicable or where the work is of short duration, suspension equipment could be used, or collective fall arrest equipment could be provided (for example safety nets) or individual fall arrest systems could be provided (for example safety harnesses).

Fall arrest

Fall arrest refers to the act of stopping the downward free fall of a person who has accidentally fallen (while working at height) with the aid of some supporting equipment. A fall arrest system should offer significant freedom of movement for workers who are carrying out their assigned duties while also protecting them from serious falls when they are working at height.

A fall arrest system is one form of fall protection system that prevents a fall from causing serious harm or death. A safety harness and fall arrest lanyard, a retractable fall arrestor/lifeline or an installed vertical lifeline and mobile fall arrestor are all examples of fall arrest systems.

Restraint

Work restraint (when working at height) refers to the act of removing the risk of a person ever accessing a position where they may fall. In other words restraint equipment physically limits the range of movement of the user of the equipment to completely eliminate the risk of a fall. An example of restraint equipment would be a belt or harness and a restraint lanyard.

Work positioning

Work positioning refers in general to the use of equipment (when working at height) to place or secure the user in a particular position to enable them to work efficiently. Examples of work positioning could include use of a work positioning lanyard attached to a safety harness or even being suspended on a rope (using rope access equipment). Importantly, using a work positioning system does not remove the need for (or take the place of) a fall arrest system. The two systems are often used simultaneously.

Rope access

Rope access (or industrial climbing) is a form of work positioning, which applies practical ropework for workers to access difficult-to-reach locations without the use of scaffolding, cradles or an aerial work platform. Rope access technicians descend, ascend, and traverse ropes for access and work while suspended by their harness. Sometimes a work seat (bosuns chair) may be used.

The support provided by the rope system is intended to eliminate the likelihood of a fall altogether, but a back-up fall arrest system is used in to cover the unlikely failure of the rope system as the primary means of support.

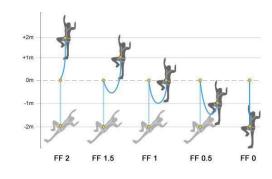
Fall factors

The 'fall factor' is a technical rope access term generally describing the severity of a fall.

The diagram here specifically applies to the use of a harness and fall arrest lanyard (as a fall arrest system).

The fall factor is dependent on the height of the initial anchor point relative to the position of the person who falls.

A fall with fall factor of 0 (using the highest possible attachment point) is inherently safer that a fall with fall factor of 2 (the lowest possible attachment point).



10B/Basic Harness (SN1)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit harness

Lightweight

Lanyard set Single leg lanyard and snap hook

Energy absorbing element

1.75m long (including energy absorber)

Adjustment Leg straps (standard buckles)

Chest strap (25mm dee rings)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)

Can be supplied with a 45mm chest strap



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanvards

10C/Basic Harness (SN2)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit harness

Lightweight

Lanyard set Double leg lanyard with snap hooks

Energy absorbing element

1.75m long (including energy absorber)

Adjustment Leg straps (standard buckles)

Chest strap (25mm dee rings)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)

Can be supplied with a 45mm chest strap



 ${\it SANS}~50361:2003~{\it Full}~body~harnesses,~{\it SANS}~50355:2003~{\it Energy}~absorbers,~{\it SANS}~50354:2003$

Lanyard:

20B/Basic Harness (SC1)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit harness

Lightweight

Lanyard set Single leg lanyard with scaffold hook

Energy absorbing element

1.75m long (including energy absorber)

Adjustment Leg straps (standard buckles)

Chest strap (25mm dee rings)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)

Can be supplied with a 45mm chest strap



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards

20C/Basic Harness (SC2)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit harness

Lightweight

Lanyard set Double leg lanyard with scaffold hooks

Energy absorbing element

1.75m long (including energy absorber)

Adjustment Leg straps (standard buckles)

Chest strap (25mm dee rings)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)

Can be supplied with a 45mm chest strap



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards

30C/Belted Harness (SC2)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit harness

Lightweight

Lanyard set Double leg lanyard with scaffold hooks

Energy absorbing element

1.75m long (including energy absorber)

Adjustment Leg straps (standard buckles)

Chest strap (25mm dee rings) Waist belt (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyords

30C45/Belted Harness (SC2) with 45mm Chest Strap



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit and lightweight

Lanyard set Double leg lanyard with scaffold hooks

Energy absorbing element

1.75m long (including energy absorber)

Adjustment Leg straps (standard buckles)

Chest strap (standard buckles) Waist belt (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)

Can be supplied with a 45mm chest strap



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards

8.37/Performance Harness



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit

Lightweight

Padded dorsal attachment point

Adjustment Leg straps (standard buckles)

Shoulder straps (standard buckles) Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses

8.37A/Performance Harness (Padded)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Easy to fit

Lightweight

Padded dorsal attachment point

Padded waist belt Padded leg straps

Adjustment Leg straps (standard buckles)

Shoulder straps (standard buckles) Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses

8.37B/Performance Harness (Belay Loops)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Frontal belay loops (for partial fall arrest)

Features Easy to fit

Lightweight

Padded dorsal attachment point

Padded leg straps

Adjustment Leg straps (standard buckles)

Shoulder straps (standard buckles) Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses

8.37C/Performance Harness (2-point)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Frontal position on chest (for partial fall arrest)

Features Easy to fit

Lightweight

Padded dorsal attachment point

Padded leg straps

Adjustment Leg straps (standard buckles)

Shoulder straps (standard buckles) Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses

8.37D/Performance Harness (3-point)



Application Fall arrest

Work positioning

Attachment Dorsal position (for fall arrest)

On waist belt (for work positioning)

Features Padded belt for work positioning

Padded dorsal attachment point

Padded leg straps

Adjustment Leg straps and shoulder straps (standard buckles)

Waist belt (standard buckles) Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning

8.37E/Performance Harness (4-point)



Application Fall arrest

Work positioning

Attachment Dorsal position (for fall arrest)

Frontal belay loops (for partial fall arrest)
On waist belt (for work positioning)

Features Padded belt for work positioning

Padded dorsal attachment point

Padded leg straps

Adjustment Leg straps and shoulder straps (standard buckles)

Waist belt (standard buckles) Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning

8.37F - Performance Harness (Mining)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Features Padded belt with cap lamp straps (mining)

Padding on dorsal attachment point

Padded leg straps Hook points on chest

Adjustment Leg straps (standard buckles)

Shoulder straps (floating buckles)

Waist belt and chest strap (standard buckles)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)

Add reflectivity



SANS 50361:2003 Full body harnesses

8.37G - Performance Harness (X)



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Frontal belay loops (for partial fall arrest)

Features X-padding over shoulders

Padded leg straps Hook points on chest

Adjustment Leg straps (quick release buckles)

Shoulder straps (floating buckles)
Chest strap (quick release buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses

8.37H - Performance Harness (X-Max)



Application Fall arrest

Work positioning

Attachment Dorsal position (for fall arrest)

On waist belt (for work positioning)
Frontal belay loops (for partial fall arrest)

Features X-padding over shoulders

Padded belt for work positioning

Padded leg straps Hook points on chest

Adjustment Legs and chest straps (quick release buckles)

Waist belt (quick release buckle) Shoulder straps (floating buckles)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning

8.41/Technical Harness

Harness only (pair with any Hilsen fall arrest lanyard)



Application Fall arrest

Attachment Dorsal position (fall arrest)

Features X-padding over shoulders

Padded waist belt Padded legs

Adjustment Leg straps (standard buckles)

Shoulder straps (standard buckles)

Carabiner connector in front (easy fitment)

Waist belt (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50362:2008 Connectors

8.41 A/Technical Harness (4-point)

Harness only (pair with any Hilsen fall arrest lanyard)



Application Fall arrest

Work positioning

Attachment Dorsal position (fall arrest)

Frontal chest (partial fall arrest)
On waist belt (work positioning)

Features X-padding over shoulders

Padded waist belt and legs Gear loops on waist belt

Adjustment Leg straps and shoulder straps (standard buckles)

Carabiner connector in front (easy fitment)

Waist belt (quick release buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

8.41B/Technical Harness (4-point QR)

Harness only (pair with any Hilsen fall arrest lanyard)



Application Fall arrest

Work positioning

Attachment Dorsal position (fall arrest)

Frontal chest (partial fall arrest)
On waist belt (work positioning)

Features X-padding over shoulders

Padded waist belt and legs Gear loops on waist belt

Adjustment Leg straps and waist belt (quick release buckles)

Carabiner connector in front (easy fitment)

Shoulder straps (standard buckles)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

8.41C/Technical Harness (5-point)

Harness only (pair with any Hilsen fall arrest lanyard)



Application Fall arrest

Work positioning

Rope access (and rescue)

Attachment Dorsal position (fall arrest)

Frontal chest (partial fall arrest)

Frontal waist (rope access and rescue)

On waist belt (work positioning)

Features X-padding on shoulders, padded waist and legs

Gear loops on waist belt

Adjustment Leg straps and shoulder straps (standard buckles)

Carabiner connector in front (easy fitment)

Waist belt (quick release buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)

SABS

SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

8.41D/Technical Harness (5-point QR)

Harness only (pair with any Hilsen fall arrest lanyard)



Application Fall arrest

Work positioning

Rope access (and rescue)

Attachment Dorsal position (fall arrest), frontal chest (partial fall arrest)

Frontal waist (rope access and rescue)

On waist belt (work positioning)

Features X-padding on shoulders, padded waist and legs

Gear loops on waist belt

Adjustment Leg straps and waist belt (quick release buckles)

Carabiner connector in front (easy fitment)

Shoulder straps (standard buckles)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning, SANS 50361:2008 Connectors

50362:2008 Connectors

8.41E/Technical Harness (Mining)

Harness only (pair with any Hilsen fall arrest lanyard)



Application Fall arrest

Attachment Dorsal position (fall arrest)

Features Padded belt with cap lamp straps (mining)

X-padding over shoulders

Padded legs

Gear loops on waist belt

Adjustment Leg straps and shoulder straps (standard buckles)

Carabiner connector in front (easy fitment)

Waist belt (quick release buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step® can be fitted (not supplied standard)

Add reflectivity



SANS 50361:2003 Full body harnesses; conforms to SANS 50362:2008 Connectors

8.46/Professional Harness



Application Fall arrest

Work positioning

Rope access (and rescue)

Attachment Dorsal position (fall arrest)

Frontal chest (partial fall arrest) Frontal waist (restraint or rescue) On waist belt (work positioning)

Features Fully padded and multiple adjustment options

Gear loops on waist belt

Adjustment Leg straps and waist belt (quick release buckles)

Shoulder strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Hilsen Harness Step@ can be fitted (not supplied standard)



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning

8.47/Lanyard SC2 (Professional)



Application Fall arrest

Hooks Two scaffold hooks

Features Energy absorbing element

Double leg 45mm webbing lanyards Hook back points positioned mid lanyard Cut and wear resistant protective sleeves

Sizing 1.75m long (including energy absorber)

Custom length between 1m and 2m

Connectors Carabiner (as standard)

Alternatively snap hook or quick link connector



SANS 50355:2003 Energy absorbers; SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors

9.11/Elite Harness



Application Fall arrest

Work positioning

Rope access (and rescue)

Attachment Dorsal position (for fall arrest)

Frontal chest (partial fall arrest)
Frontal waist (restraint and rescue)
On waist belt (work positioning)

Features Aluminium components

Fully padded and adjustable

Adjustment Leg straps (quick release buckles)

Shoulder strap and waist belt (standard buckle)

Sizing Small, medium, large, XL and 2XL



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning

9.08/Eskom Type Power Lines Kit



Application Fall arrest

Work positioning

Attachment Dorsal position (fall arrest)

Frontal chest (partial fall arrest)
On waist belt (work positioning)

Features Flame retardant and anti-static webbing

Adjustment Leg straps and shoulder straps (standard buckles)

Carabiner connector in front (easy fitment)

Waist belt (quick release buckle)

Contents a. Technical Harness (4-point)

b. Lanyard SC2 (Adjustable)

c. Work Positioning Lanyard (webbing type)

d. Climbing slings 150cm (x2)

e. Gear Bag 50



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors, SANS 50358:2008 Work positioning, SANS 50566:1997 Slings

9.09/Transnet Type Harness



Application Fall arrest

Work positioning

Attachment Dorsal position (fall arrest)

Frontal chest (partial fall arrest) On waist belt (work positioning)

Features X-padding over shoulders

Padded waist belt and legs Gear loops on waist belt

Adjustment Leg straps and waist belt (quick release buckles)

Carabiner connector in front (easy fitment)

Shoulder straps (standard buckles)

Sizing Small, medium, large, XL and 2XL



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

9.10/AMSA (Arcelor Mittal) Type Harness



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Frontal position on chest (for partial fall arrest)

Features Easy to fit and lightweight

Padding on dorsal attachment point

Padded leg straps Harness step

Adjustment Leg straps (standard buckles)

Shoulder straps (standard buckles) Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Lanyard options vary per site requirements



SANS 50361:2003 Full body harnesses

9.12/Sit Harness



Application Work positioning

Rope access (not to be used for fall arrest)

Attachment Frontal carabiner connector on waist (for rope access)

On waist belt (work positioning)

Features Padded waist and legs

Adjustment Waist belt (floating buckles)

Leg straps (standard buckles)

Sizing Small, medium, large, XL and 2XL

Conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

9.13/Billiton Type Harness



Application Fall arrest

Work positioning

Attachment Dorsal position (for fall arrest)

On waist belt (work positioning)

Features X-padding over shoulders

Padded leg straps

Rescue handles on shoulders

Standing step

Adjustment Leg straps, chest strap and shoulder straps (standard buckles)

Sizing Small, medium, large, XL and 2XL

Options Lanyard options vary with site requirements



SANS 50361:2003 Full body harnesses; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

9.14/Amplats Type Harness



Application Fall arrest

Attachment Dorsal position (for fall arrest)

Frontal chest (rescue points x 2)

Features Padding on dorsal attachment point and waist

Padded leg straps Standing step

Adjustment Leg straps and shoulder straps (standard buckles)

Chest strap (standard buckle)

Sizing Small, medium, large, XL and 2XL

Options Two versions available, one for surface use and one for under

ground use (with additional cap lamp straps on waist belt – as

pictured here)



SANS 50361:2003 Full body harnesses

8.21/Lanyard SC2

Lanyard set only (pair with any Hilsen full body harness)



Application Fall arrest

Hooks Two scaffold hooks

Features Energy absorbing element

Double leg 45mm webbing lanyards

Sizing 1.75m long (including energy absorber)

Custom length between 1m and 2m

Connectors Carabiner (as standard)

Alternatively snap hook or quick link connector

Options Available in single or double leg configuration

Also available with snap hooks



SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors

8.21A/Lanyard SC2 (High Wear)

Lanyard set only (pair with any Hilsen full body harness)



Application Fall arrest

Hooks Two scaffold hooks

Features Energy absorbing element

Double leg 25mm tubular webbing lanyards

Sizing 1.75m long (including energy absorber)

Custom length between 1m and 2m

Connectors Carabiner (as standard)

Alternatively snap hook or quick link connector

Options Available in single or double leg configuration

Also available with snap hooks



SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors

8.47/Lanyard SC2 (Professional)

Lanyard set only (pair with any Hilsen full body harness)



Application Fall arrest

Hooks Two scaffold hooks

Features Energy absorbing element

Double leg 45mm webbing lanyards Hook back points positioned mid lanyard Cut and wear resistant protective sleeves

Sizing 1.75m long (including energy absorber)

Custom length between 1m and 2m

Connectors Carabiner (as standard)

Alternatively snap hook or quick link connector



SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors

8.48A/Lanyard SC2 (Elasticated)

Lanyard set only (pair with any Hilsen full body harness)



Application Fall arrest

Hooks Two scaffold hooks

Features Energy absorbing element

Double leg 45mm webbing lanyards

Elasticated webbing sleeves

Sizing 1.75m long (including energy absorber)

Connectors Carabiner (as standard)

Alternatively snap hook or quick link connector

Options Available in single or double leg configuration

Also available with snap hooks



SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors

8.43/Lanyard SC2 (Adjustable)

Lanyard set only (pair with any Hilsen full body harness)



Application Fall arrest

Hooks Two scaffold hooks

Features Energy absorbing element

Double leg 45mm webbing lanyards Adjustment buckle on each lanyard leg

Sizing 1.75m long maximum adjustment (as standard)

1.00m long minimum adjustment (as standard)

Connectors Carabiner (as standard)

Alternatively snap hook or quick link connector

Options Available in single or double leg configuration

Also available with snap hooks



SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors

8.49/Lanyard SC2 (Wire Rope)

Lanyard set only (pair with any Hilsen full body harness)



Application Fall arrest

Hooks Two scaffold hooks

Features Energy absorbing element

Double leg 6mm steel wire rope lanyards

Protective sleeve 1mm PVC

Sizing 1.75m long (as standard)

Can specify length between 1m and 2m

Connectors Carabiner (as standard)

Alternatively snap hook or quick link connector

Options Available in single or double leg configuration

Also available with snap hooks



SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50362:2008 Connectors

9.14/Performance Complete Kit



Application Fall arrest

Work positioning

Attachment Dorsal position (for fall arrest)

Frontal belay loops (for partial fall arrest)
On waist belt (for work positioning)

Kit Contents a. Performance harness (4-point)

b. Lanyard SC2 (carabiner connector)c. Work positioning lanyard (webbing type)

d. Open round sling 60cm e. Open round sling 120cm

f. Gear bag 50

Options Order an additional Harness PPE Pack (short brim helmet with

chin strap, work gloves), not supplied as standard



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors, SANS 50566:1997 Slings

9.15/Technical Complete Kit



Application Fall arrest

Work positioning

Rope access (and rescue)

Attachment Dorsal position (for fall arrest)

Frontal chest (for partial fall arrest)
Frontal waist (for rope access and rescue)
On waist belt (for work positioning)

Kit Contents a. Technical harness (5-point)

b. Lanyard SC2 (carabiner connector)
c. Work positioning lanyard (webbing type)
d. Open round slings (1 x 60cm and 1 x 120cm)

e. Gear bag 50

Options Order an additional Harness PPE Pack (short brim helmet with

chin strap, work gloves), not supplied as standard



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors, SANS 50566:1997 Slings

9.06/Professional Complete Kit



Application Fall arrest

Work positioning

Rope access (and rescue)

Attachment Dorsal position (fall arrest)

Frontal chest (partial fall arrest)
Frontal waist (rope access or rescue)
On waist belt (work positioning)

Kit contents a. Professional harness (5-point)

b. Professional lanyard SC2 (carabiner connector)

c. Professional work positioning lanyard

d. Professional gear bag 50

Options Order an additional Harness PPE Pack (short brim helmet with

chin strap, work gloves), not supplied as standard



SANS 50361:2003 Full body harnesses, SANS 50355:2003 Energy absorbers, SANS 50354:2003 Lanyards; conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors, SANS 50566:1997 Slings

9.04/Temporary Vertical Lifeline Kit (20m)



Application Fall arrest

System Portable vertical access system with a mobile fall arrestor

connecting to harness, an anchored static rope feeds through

the fall arrestor which locks in event of a fall

Contents a. Anchor sling 150cm

b. Kernmantel static rope 11mm (20m to 50m rope length)

c. Mobile fall arrestor (SR Locker) d. Twist-lock carabiners (2)

e. Gear bag 50

Training Required training: Unit Standard ID: 229998 Explain and perform

fall arrest techniques when working at heights

Be aware Requires a harness with frontal attachment point

Conforms to SANS 50362:2008 Connectors, SANS 50795:1996 Anchor devices, SANS 50353-2:2003 Guided type fall arrestors, SANS 51891:1998 Low stretch kernmantel ropes

9.03/Temporary Horizontal Lifeline Kit (20m)



Application Temporary anchor point

System Portable webbing lifeline with adjustable span (maximum span

between two suitable anchor points is 20m), to secure a maxi mum of two users at any time while using a fall arrest lanyard,

fall arrestor or vertical lifeline

Contents a. Anchor slings 150 (3)

b. 2.5 ton bow shackle connectors (2) c. Twist-lock carabiner connector (1)

d. Webbing lifeline (20m) e. Ratchet 50mm

f. Gear bag 50

Training Required training: Unit Standard ID: 229998 Explain and perform

fall arrest techniques when working at heights

Conforms to SANS 50795:1996 Anchor devices, SANS 50362:2008 Connectors

9.16/Roofers Kit (30m)



Application Fall arrest (work at height from ladder or roof)

System Portable vertical access system with a mobile fall arrestor

connecting to harness, an anchored static rope feeds through

the fall arrestor which locks in event of a fall

Contents a. Anchor sling 150cm

b. Kernmantel static rope 11mm (30m)

c. Mobile fall arrestor (rope grab)d. Twist-lock carabiners (2)

e. Rope edge protectors (2)

f. Gear bag 50

Training Required training: Unit Standard ID: 229998 Explain and perform

fall arrest techniques when working at heights

Be aware Requires a harness with frontal attachment point

Conforms to SANS 50362:2008 Connectors, SANS 50795:1996 Anchor devices, SANS 50353-2: 2003 Guided type fall arrestors, SANS 51891:1998 Low stretch kernmantel ropes

9.01/Basic Rescue Kit (Pick Off Type)



Application Fall arrest rescue

Portable vertical ascending and descending system, rescuer descends to the fall victim and lowers both to safety below System

Contents a. Anchor sling 150cm

b. Kernmantel static rope 11mm (50m to 150m rope length)

c. Double locking descent device (Lory Smart)

d. Jumar with tape ladder, e. Rescue knife

f. Rescue link

g. Twist-lock carabiner connectors (5)

h. Gear bag 50

Required: Unit Standard ID: 229995 Install, use and perform **Training**

basic rescues from fall arrest systems

Conforms to SANS 50362:2008 Connectors, SANS 50795:1996 Anchor devices, EN 341:2011 Descender devices for rescue, SANS 50353-2: 2003 Guided type fall arrestors and SANS 51891:1998 Low stretch kernmantel ropes

9.02/Remote Retrieval Rescue Kit



Application Remote fall arrest rescue

System Portable vertical ascending and descending system, with setup

options for 3:1....4:1....or 5:1 pulley systems

Contents a. Anchor sling 150cm (2)

b. Kernmantel static rope 11mm (10m to 600m rope length)

c. Extension pole, Kong Frog and connector

d. Rigging plate (medium), e. Lory Smart

f. Double pulley (2) and single pulley (1)

g. Jumar handle (2), h. Tape ladder

i. Twist-lock carabiner connectors (8), j. Gear bag 100

Required: Unit Standard ID: 229995 Install, use and perform basic rescues from fall arrest systems **Training**

Conforms to SANS 50362:2008 Connectors, SANS 50795:1996 Anchor devices, EN 341:2011 Descender devices for rescue, SANS 50353-2: 2003 Guided type fall arrestors and SANS 51891:1998 Low stretch kernmantel ropes

9.17/Auto Descender Kit (YIE003)



Application Emergency self-rescue device

Controlled descent device where person self-rescuing safely descends at an automatically limited speed System

Contents a. Anchor sling 150cm

b. Kernmantel static rope 11mm (30m rope length only)

c. Auto descender device (YIE003))

d. Twist-lock carabiner connector

e. Gear bag 50

Maximum descent height of 30m, maximum load of 150kg, descent speed of 0.8m/s to 1.5m/s depending on load Limitations

Training Required: Unit Standard ID: 229998 Explain and perform fall arrest techniques when working at heights

Conforms to SANS 50362:2008 Connectors, SANS 50795:1996 Anchor devices, SANS 50353-2: 2003 Guided type fall arrestors and SANS 51891:1998 Low stretch kernmantel ropes

7.18/Work Positioning Belt



Application Work positioning

Not to be used for fall arrest!

Attachment On waist belt (attached to a work positioning lanyard)

Features Padded waist belt

Side dee rings on waist

Adjustable work positioning lanyard

Snap hook connector Protective sleeve

Adjustment Waist belt (standard buckle)

Lanyard (floating buckle)

Note Selected Hilsen harnesses include a work positioning belt and

functionality

Conforms to SANS 50358:2008 Work positioning

10.05/Work Positioning Lanyard (Webbing Type)



Application Work positioning

Not to be used for fall arrest!

Features Adjustable webbing lanyard (floating buckle)

Maximum adjusted length of 2m

45mm webbing Protective sleeve

Connectors Carabiner and snap hook at ends

Options Supplied as maximum adjusted length of 2m but other

lengths available

Conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

10.06/Work Positioning Lanyard (Rope Type)



Application Work positioning

Not to be used for fall arrest!

Features Adjustable rope lanyard (rope grab)

Maximum adjusted length of 2m

16mm rope Protective sleeve

Connectors Carabiner (on rope grab) and snap hook at end

Options Supplied as maximum adjusted length of 2m but other lengths

are available

Conforms to SANS 50358:2008 Work positioning, SANS 50362:2008 Connectors

Gear Bags 15 and 20



3.01/Gear Bag 15

Capacity Height 30cm, diameter 25cm

Volume 15 litres

Features Water resistant PVC fabric

Fold over top with clip

Shoulder strap

3.02/Gear Bag 20

Capacity Height 40cm, diameter 25cm

Volume 20 litres

Features Water resistant PVC fabric

Fold over top with clip

Shoulder strap

Gear Bags 50 and 100



3.03/Gear Bag 50

Capacity Height 40cm, diameter 30cm

Volume 28 litres

Features Water resistant heavy duty PVC fabric

Toggle and eyelet top fastening
Two adjustable shoulder straps

Carry handle

3.09/Gear Bag 100

Capacity Height 80cm, diameter 30cm

Volume 56 litres

Features Water resistant heavy duty PVC fabric

Toggle and eyelet top fastening Two adjustable shoulder straps

Carry handle

Gear Bags 200 and 200 (Heavy Duty)



3.04/Gear Bag 200

Capacity Height 80cm, diameter 40cm

Volume 100 litres

Features Water resistant heavy duty PVC fabric

Heavy duty YKK zip

Tab and eyelet to take an inspection seal

Two carry handles
Two carry straps

3.15/Gear Bag 200 (Heavy Duty)

Capacity Height 80cm, diameter 40cm

Volume 100 litres

Features As for Gear Bag 200

HD features Additional zip protector

Reinforced bottom panel

Kernmantel Ropes



12.01/Low Stretch Kernmantel Rope (Q4019)

Specifications 10.5mm rope, nylon core, polyester outer, weight: 75.7g/m

Elongation: maximum 2.9%

Strength: fall arrest 5.9kN, unknotted 31.6kN, knotted 15kN

12.02/Low Stretch Kernmantel Rope (Q3891)

Specifications 11mm rope, nylon core, polyester outer, weight: 84g/m

Elongation: maximum 2.8%

Strength: fall arrest 5.7kN, unknotted 37.7kN, knotted 15kN

12.03/Dynamic Kernmantel Rope (N2645)

Specifications 11mm rope with nylon core and outer, weight: 77g/m

Elongation: maximum 5%, dynamic elongation 26%

Strength: fall arrest peak strength11.6kN

Conforms to EN 1891:1998 Low stretch kernmantel ropes (Q4019 and Q3891), EN 892:2012 Dynamic mountaineering ropes (N2645)

Open Round Slings



10.01/Open Round Sling 60cm

Application Open round webbing sling

Set up as an anchor point for a fall arrest lanyard

Features 25mm tubular webbing

Minimum breaking strength of 22kN

10.02/Open Round Sling 120cm

Application Open round webbing sling

Set up as an anchor point for a fall arrest lanyard

Features 25mm tubular webbing

Minimum breaking strength of 22kN

Conforms to SANS 50566:1997 Slings

Anchor Slings



10.04/Anchor Sling 50cm

Application Flat webbing sling

Set up an anchor point on a structure

Features 45mm webbing

Minimum breaking strength of 22kN

Protective sleeve and steel dee ring at each end

10.03/Anchor Sling 150cm

Application Flat webbing sling

Set up an anchor point on a structure

Features 45mm webbing

Minimum breaking strength of 22kN

Protective sleeve and steel dee ring at each end

Conforms to SANS 50795:1996 Anchor devices

7.00/Fall Arrestor 2m (Compact)



Application Use as part of a fall arrest system to reduce vertical impact

force by limiting the distance of a fall

Features 25mm webbing lanyard

Maximum extension 2m

Complete with snap hook and carabiner

Weight 10kg

Safe load 140kg (weight of user, their PPE, clothing and tooling)

Serviceability Fully serviceable and can be inspected and certified

Conforms to EN 360:2002 Retractable lanyards, EN 362:2008 Connectors

Fall Arrestors (Webbing Type)



7.01/Fall Arrestor 3.5m

Application Use as part of a fall arrest system to reduce vertical impact

force by limiting the distance of a fall

Features Maximum extension 3.5m, weight 10kg, complete with snap

hook and carabiner 25mm webbing lanyard

Safe load 140kg (weight of user, their PPE, clothing and tooling)

Serviceability Fully serviceable and can be inspected and certified

7.02/Fall Arrestor 6m

Features Maximum extension 6m, weight 10kg, complete with snap hook

and carabiner 25mm webbing lanyard

Conforms to EN 360:2002 Retractable lanyards, EN 362:2008 Connectors

Fall Arrestors (Cable Type)



7.06/Fall Arrestor 6m

Application Use as part of a fall arrest system to reduce vertical impact

force by limiting the distance of a fall

Features Weight 10kg, SWR lanyard, with connectors

7.03/Fall Arrestor 10m

Features Weight 10kg, 4mm SWR lanyard, with connectors

7.04/Fall Arrestor 15m

Features Weight 10kg, 4mm SWR lanyard, with connectors

7.05/Fall Arrestor 20m

Features Weight 10kg, 4mm SWR lanyard, with connectors

Conforms to EN 360:2002 Retractable lanyards, EN 362:2008 Connectors

8.35/Harness Step



Application Safety device to mitigate risk of suspension trauma

Fitment Unit added to any Hilsen harness at manufacture

To deploy a. Pull connector downward to release harness step

b. Pull step out of protective cover until fully deployed

c. Feed connector through webbing loop

d. Hook connector back onto suitable webbing eye

e. Insert foot (or both feet) into harness step

f. Stand up to relieve pressure from leg straps

Adjustment g. Remove foot (or feet) from harness step

h. Move connector to another webbing eye i. Insert foot (or both feet) into harness step

Be aware Training is required to use this device

8.35A/Standing Step



Application Safety device to mitigate risk of suspension trauma

Fitment Unit added to any *Hilsen* harness at manufacture

To deploy a. Pull downward on webbing tabs to release step

b. Pull step out of pouch until fully deployed

c. Adjust step using floating buckle d. Insert foot (or both feet) into step

e. Stand up to relieve pressure from leg straps

Adjustment f. Remove foot (or feet) from step

g. Adjust step using floating buckle

h. Insert foot (or both feet) into step

i. Stand up to relieve pressure from leg straps

Be aware Training is required to use this device

8.35B/Component Harness Step



Application Safety device to mitigate risk of suspension trauma

Fitment a. Unit supplied separately as a component

b. Select suitable anchor point on harness at waist

c. Loop unit around harness strap

d. Feed back through webbing eye

e. Allow unit to hang freely from waist

To deploy f. Pull connector downward to release harness step

g. Pull step out of protective cover until fully deployed h. Feed connector back through harness webbing i. Hook connector back onto suitable webbing eye

j. Insert foot (or both feet) into harness step

Adjustment k. Remove foot (or feet) from harness step

I. Move connector to another webbing eye m. Insert foot (or both feet) into harness step

Be aware Training is required to use this device

hilsen



Suspension trauma

A universal problem

Suspension trauma is a risk associated with the difficulties of being suspended in an industrial safety harness. The effects are well documented with many studies done. The issue is essentially one of constricted blood flow through the groin area (femoral artery) and the knock on physiological effects that will follow.

Being suspended in a harness not specifically designed for prolonged suspension can put severe pressure on your body, pressure from leg straps constrains blood flow to your legs, toxins may accumulate in the blood trapped in your legs.

Blood pressure may fluctuate as your body tries to solve the problem, you may experience light headedness and may even lose consciousness while suspended in your safety harness. The problem can quickly compound and become very serious, even life threatening.

An effective solution

A device like the Hilsen Harness Step® is an effective solution to the problem of suspension trauma and its mechanism is quite simple, create a temporary step to stand in until the fall victim can be rescued in terms of a fall protection plan.

The pressure relief helps to restore blood flow to the legs and prevent the onset of critical blood pressure changes. In one endurance test a person was able to hang untroubled in the harness using the harness step for 90 minutes.

It is important to adjust the length of the step for maximum effectiveness and while awaiting rescue the fall victim should remain calm and alternate feet in the step frequently.

The Hilsen Harness Step

The Hilsen Harness Step® is a safety device for relief from suspension trauma after a fall arrest. Deploying the step is easy and intuitive, even so, training is required to ensure the user is proficient in its deployment and use:



The Hilsen Harness Step® is secured in a plastic sleeve. A lightweight connector protrudes beyond the edge of the sleeve allowing the user to hook a finger through to deploy the step in an emergency. Pulling firmly downward on the connector will release the step.



With the step fully deployed, pass the connector across to the lime coloured webbing eye which is permanently attached to the opposite side of the harness at the waist.



Now feed the connector through webbing eye and then loop it back. There are two webbing eyes sewn along the length of the step.



Select one of the webbing eyes and hook the connector to it. Note that whatever eye you select will determine the length of the step you have now created. You need to choose a length that best suits your lea lenath.

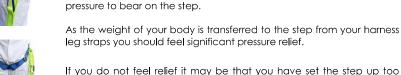


If you are quite tall and find that neither eye provides a long enough step to stand in, you also have the option of hooking the connector directly onto the webbing eye at the waist.



You can adjust the connector between eyes at any time while suspended in the harness as required.

Now that you have your step set up, go ahead and insert one or both feet into the Hilsen Harness Step® and straighten your legs to bring





long for your leg length. Rectify this by moving the connector to another eye as explained above. Once you have correctly set up the step and have relieved the pres-

sure on your upper legs you are in a position to safely await rescue or assistance.

Remain calm and alternate feet in the step frequently as required.