



KARAM®

knowing your needs better



Making **india**
Self Reliant

DISCLAIMER

The information provided in this catalog is based on the technical data that KARAM obtained under laboratory conditions and believes to be reliable. KARAM does not guarantee results and takes no liability or obligation in connection with this information. Since conditions of end-use are beyond our control, it is the user's responsibility to determine the hazard levels and the use of proper personal protective equipment. Persons having technical expertise should undertake evaluation under their specific end-use conditions, at their discretion and risk. Please ensure that this information is only to check that the product selected is suitable for the intended use. Any product that is damaged, torn, worn, or punctured should be discontinued from usage immediately.

“

This collection by KARAM brings forward the commitment made in the last edition with the introduction of new range of products like Industrial and Flame Resistant Protective Workwear, Hand Protection, The Flytex Range of Safety Footwear and the much awaited Disposable Respiratory Range.

We have also introduced the Next Generation of KARAM Harnesses equipped with modern technology.

Proud to bring fourth the latest edition of this catalog, KARAM stands committed to its customers to provide the best quality in product and service.

Let us define Safety-the KARAM way

”

Safe Regards,

Team KARAM

INDIA

REACHING OUT



KARAM
Offices



Channel
Partners



Dealers



Retailers



Project
Associates



Project
Partners



KARAM
Authorised
Revalidation
Center



Training
Partner

Customer Care: 1800 103 7085(Toll Free No.), e-mail- karam@karam.in

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KARAM Quality Management System is certified as per ISO : 9001 : 2015, by SGS-Finland.

Under this certification, all processes and systems are stringently monitored to deliver quality product at each stage of manufacturing and service.

Product Certification (CE)

More than 2800 products manufactured by KARAM are CE certified.

Our Certificates have been issued by Certifying Body SATRA, Apave and Dolomiticert, in accordance with Module “B” with Regulation (EU) 2016/425.

Our assessment body is SGS-Finland which issues us our certificate as per directive Regulation (EU) 2016/425. The notified body number of SGS is 0598.

All our products are marked ‘0598’.

As per module D certificate, all products marked CE 0598 must have a valid E.U. type-examination certificate issued under module B.



Standards	Category
EN 358	Belt for Work Positioning, Restraint and Work Positioning Lanyards
EN 361	Full Body Harnesses
EN 813	Sit Harnesses
EN 362	Hooks and Connectors
EN 354	Lanyards
EN 355	Energy Absorbers
EN 795	Anchorage Devices
EN 353-2	Guided type Fall Arrester including a Flexible Anchorage Line
EN 353-1	Guided type Fall Arrester including a Rigid Anchorage Line
EN 360	Retractable type Fall Arresters
EN 1496	Rescue Lifting Devices
EN 341	Descender Devices for Rescue

Standards	Category
EN 1497	Rescue Harnesses
EN 397	Safety Helmets
EN 166	Welding Shield and Spectacles
EN 175	Helmet Attachable Welding Shield
EN 352-2	Ear Plugs
EN 352-1	Ear Muffs
EN 20345	Safety Shoes
EN 388	Hand Protection
IS 2925	Safety Helmets
IS 9473:2002	FFP1, FFP2 Disposable Respirators
IS 16289:2014	Class 3 Surgical 3 Ply Masks
IS 3521	Full Body Harnesses (E-Con Series)
IS 15298	Safety Shoes

KARAM is one of the leading PPE manufacturers in India and one of the top Fall Protection companies in the world. With a Mission that speaks of commitment towards the safety of millions of workers working at a height across the world, KARAM stands tall in achieving its goals. Over more than two decades, we at KARAM have worked tirelessly and relentlessly, to understand the needs of our valuable customers, and manufacture products, which not only comply with the world Safety Standards, but are also designed to provide the best in Safety and ergonomics.

An infrastructure that spans more than 50 acres houses a team of over 3300 dedicated individuals working collectively as a team, towards a common purpose. Aptly supported by the finest machinery, manufacturing at KARAM is a combination of highly technology-based processes carried out under strict quality supervision. KARAM has been awarded the ISO 9001:2015 Systems Certification by SGS-Finland, in addition to possessing now more than 2900 product certifications.

KARAM products have a worldwide reach of over 80 countries, expanding every year. They are certified to various International Standards like CE (European), ISI (Bureau of Indian Standards), ANSI (American), AS/NZS (Australia/New Zealand), Singapore etc.



SITARGANJ UNIT



LUCKNOW UNITS



KARAM has the largest fully backward integrated manufacturing set up in the world, manufacturing all the components of its entire range of products, from basic raw material, all in-house. Operations at KARAM are performed using the best practices in manufacturing like Six Sigma, Gemba (the real place), KAIZEN (Continuous Improvement), Poka- Yoke (Error Proofing), etc. With the commitment to sustain these practices in manufacturing, KARAM won the IMEA Award for three consecutive years in the field of Manufacturing Excellence organized by Frost and Sullivan and FICCI. Along with sustainability of these practices, Operations at KARAM are under constant vigilance and are continually improvised each day, involving better processes and technology at all steps.

KARAM has state-of-the-art machinery along with extremely skilled manpower involved in critical operations to produce the best quality safety gear from head to toe.

Our Quality lab has also been accredited by an Australian body to provide AS/NZS certification.

Constant enhancement in technology and focused attention towards providing the highest quality products has enabled KARAM to establish itself as a leading player in the field of PPE.





Kernmantle Rope Making



Webbing Cutting Machine



Grommet Machine



Product Design and Development



Safety Shoe Production



Helmet Assembly Line



Safety Spectacles Moulding



Robotic Operations



Ear Plug Production



Packaging



RESPIRATORY PROTECTION



NEW

Introducing the Surgical 3 ply masks and Select Series of flat fold disposable Face Respirators.

These Face Respirators are most suited for different applications in daily activities. They are duly certified as per IS 9473:2002.



Scan here for a virtual tour of the product

Standards At A Glance

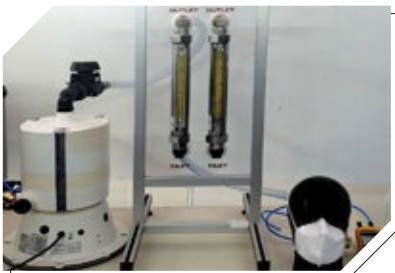
IS 9473 : 2002 - RESPIRATORY PROTECTIVE DEVICES FILTERING HALF MASKS

Provides protection against, air contaminants, viruses, bacterial, micro-organisms, dust, pollen and smoke.

Filtering facepiece serve to protect against particulates such as dust particles, droplets, and aerosols. The EN 149 standard defines three classes of filtering efficiency, namely FFP1, FFP2 and FFP3.

Requirements: All Masks certified to IS 9473 : 2002 must meet these requirements:

1. Material and construction
2. Practical Performance Test
 - Cleaning and Disinfecting
 - Head harness comfort
 - Security of fastenings
 - Field of vision
3. Leakage
 - Total Inward Leakage
 - Penetration of Filter Material
4. Compatibility with Skin
5. Flammability
6. Carbon Dioxide Content of the Inhalation Air
7. Head Harness
8. Field of Vision
9. Inhalation and Exhalation Valves Testing
10. Breathing Resistance
11. Clogging
 - Breathing Resistance After Clogging
 - Valved filtering half masks
 - Filter Penetration
12. Visual inspection



BREATHING RESISTANCE TEST



PARTICULATE FILTERING EFFICIENCY TEST

← Testing



TESTED & CERTIFIED



DOLOMITE DUST CLOGGING TEST



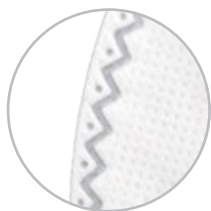
EXHALATION VALVE LEAKAGE TEST

NEW

SELECT Series

With a range of FFP1 and FFP2 models, Select Series is the ideal choice for use upto 12 hours (cumulative) in varied industries.

FEATURES LIKE NEVER BEFORE!



*Comes with a catchy zig-zag pattern on the edge



Soft and light weight material for uncompromised protection

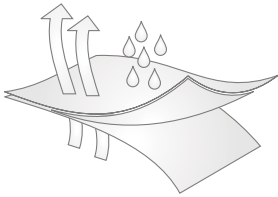


Every Mask comes with batch number/ lot number details for complete transparency with the user

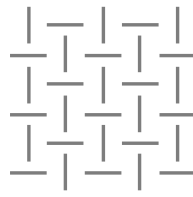


Fully sterilized before being packaged

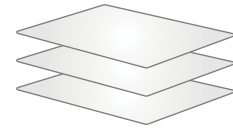
UNIQUE FEATURES OF FABRIC



Made of Non-woven Highly Breathable Polypropylene material



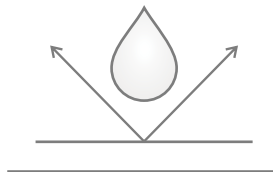
Ultra Soft Fabric for superior comfort over prolonged usage



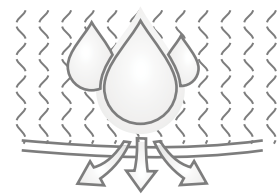
Multi-Layer Protection
Filters contaminants like dust, particulate matter, viruses, bacteria and other micro-organisms



Electrostatically Charged Filter for enhanced filtering efficiency

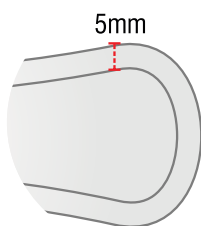


Water Repellent outer layer ensuring that the mask does not soak when in contact with a few drops of water

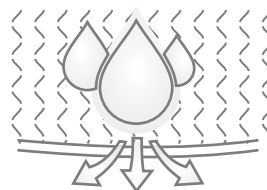


Sweat Absorbent innermost layer for utmost comfort during prolonged usage

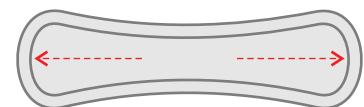
UNIQUE FEATURES OF LOOP/HEADBAND



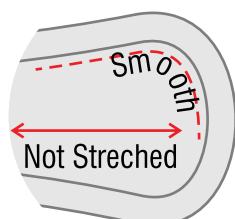
Hypoallergenic Elasticated Material of 5mm width that does not cause allergies



Soft, Latex-free and Sweat Absorbent



One size fits all



Does not stretch even after prolonged usage

SELECT Series FFP1S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE RESPIRATOR MASK WITH EAR LOOPS

Ref. RF 01

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 80%	Exceeds 90%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.6 mbar Inhalation Flow- 95 l/min: Should be less than 2.1 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.4 mbar 1.7 mbar 2.4 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 22% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 25% 	<ul style="list-style-type: none"> 3.36% 9.36%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.5%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 90%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

SELECT Series FFP1S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE FACE RESPIRATOR WITH EAR LOOPS AND EXHALATION VALVE

Ref. RF 01 +

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 80%	Exceeds 90%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.6 mbar Inhalation Flow- 95 l/min: Should be less than 2.1 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.3 mbar 1.4 mbar 1.2 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 22% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 25% 	<ul style="list-style-type: none"> 2.89% 6.58%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.4%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 90%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

SELECT Series FFP1S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE FACE RESPIRATOR WITH HEADBAND

Ref. RFH 01

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 80%	Exceeds 90%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.6 mbar Inhalation Flow- 95 l/min: Should be less than 2.1 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.3 mbar 1.5 mbar 1.9 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 22% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 25% 	<ul style="list-style-type: none"> 2.44% 7.08%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.5%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 90%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

SELECT Series FFP1S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE FACE RESPIRATOR WITH HEADBAND AND EXHALATION VALVE

Ref. RFH 01 +

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 80%	Exceeds 90%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.6 mbar Inhalation Flow- 95 l/min: Should be less than 2.1 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.4 mbar 1.2 mbar 1.2 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 22% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 25% 	<ul style="list-style-type: none"> 2.78% 3.58%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.4%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 90%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

SELECT Series FFP2S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE FACE RESPIRATOR WITH EAR LOOPS Ref. RF 02

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 94%	Exceeds 97%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.7 mbar Inhalation Flow- 95 l/min: Should be less than 2.4 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.4 mbar 1.6 mbar 2.1 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 8% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 11% 	<ul style="list-style-type: none"> 2.05% 6.31%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.6%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 99%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

SELECT Series FFP2S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE FACE RESPIRATOR WITH EAR LOOPS AND EXHALATION VALVE

Ref. RF 02+

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 94%	Exceeds 97%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.7 mbar Inhalation Flow- 95 l/min: Should be less than 2.4 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.3 mbar 1.3 mbar 1.2 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 8% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 11% 	<ul style="list-style-type: none"> 2.56% 7.26%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.4%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 99%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

SELECT Series FFP2S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE FACE RESPIRATOR WITH HEADBAND Ref. RFH 02

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 94%	Exceeds 97%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.7 mbar Inhalation Flow- 95 l/min: Should be less than 2.4 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.3 mbar 1.5 mbar 1.8 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 8% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 11% 	<ul style="list-style-type: none"> 2.04% 6.31%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.6%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 99%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

SELECT Series FFP2S

IS 9473:2002



CM/L-8300137209

► DISPOSABLE FACE RESPIRATOR WITH HEADBAND AND EXHALATION VALVE

Ref. RFH 02+

*Available in colors: 

PERFORMANCE REQUIREMENTS TESTED AS PER VARIOUS CLAUSE OF IS 9473:2002 :-

Vital Test	Requirement as per Standard	KARAM Mask
Particulate Filtering Efficiency (Clause 5.4.2 of IS 9473:2002)	Requirement as per standard- 94%	Exceeds 97%
Breathing Resistance (Clause 5.11 of IS 9473:2002)	<ul style="list-style-type: none"> Inhalation Flow- 30 l/min: Should be less than 0.7 mbar Inhalation Flow- 95 l/min: Should be less than 2.4 mbar Exhalation Flow- 160 l/min: Should be less than 3.0 mbar 	<ul style="list-style-type: none"> 0.3 mbar 1.4 mbar 1.2 mbar
Total Inward Leakage (Clause 5.4.1 of IS 9473:2002)	<ul style="list-style-type: none"> The arithmetic mean of the total inward leakage of at least 8 out of 10 subjects should not be greater than 8% The arithmetic mean of the Total Inward Leakage of at least 46 subjects should not be greater than 11% 	<ul style="list-style-type: none"> 2.76% 3.28%
CO ₂ Content of Inhalation Air (Clause 5.7 of IS 9473:2002)	Carbon dioxide content of the inhalation air (dead space) should not exceed an average of 1% (by vol.)	< 0.5%
Flammability (Clause 5.6 of IS 9473:2002)	The Face Mask when subject to pass the flame once at the specified speed should not continue to burn after removal of flame	KARAM Mask does not continue to burn after removal of flame
Bacterial Filtering Efficiency	Bacterial filtering efficiency should be >90%	> 99%

*Note- It is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.

IS 16289:2014



CM/L 8300142210

CLASS 3

► **DISPOSABLE SURGICAL 3PLY FACE MASK**
Ref. RFM 50

► *Ultrasonically Sealed Earloops onto the Mask for Better Strength*

► *Pliable yet Firm Nose Clip, so as to rest on the Nose Comfortably*

► *Extremely Soft and Elasticated Earloops*

► *Sweat Absorbent Inner Layer and Water Repellant Outer Layer*

► *Meltblown Filtering Fabric that ensures Excellent Filtration*

*Available in colors:   



Excellent Filtration



Enhanced Breathability



Soft and Lightweight

PERFORMANCE REQUIREMENTS AS PER IS 16289:2014 :-

Testing Parameters	Class 1	Class 2	Class 3
Minimum Bacterial Filtration Efficiency	95%	98%	98%
Maximum Differential Pressure	29.4 Pa	29.4 Pa	49.0 Pa
Minimum Splash Resistance	-	-	120 mm Hg.
Minimum Sub-micron Particulate Filtration at 0.1 μ	-	-	98%

➤ KNOW YOUR FACE RESPIRATOR MORE



Scan here to check the steps to dispose off a used Face Respirator

➤ STEPS TO DISPOSE OFF A USED FACE RESPIRATOR

General Household

Step 1: Tear the Mask completely or break atleast one of the headbands/ear loops by pulling it apart so that it cannot be reused.

Step 2: Discard in a separate covered bin.

Step 3: Keep the bin for at least 72 hours.

Step 4: Give away the bin contents to a recycler.

Medical Staff

Follow hospital waste management procedures.



➤ SHELF LIFE

3 years from the date of manufacturing (If stored between -5 $^{\circ}$ c to +50 $^{\circ}$ c and humidity not over 80%).



As a conscious step towards sustainability and environmental protection, KARAM Select Series of Disposable Respirators are 100 % recyclable.

➤ NON WASHABLE

Is not recommended to wash a disposable Face Respirator as this damages it and lowers its filtering efficiency.



HEAD PROTECTION



The KARAM range of Safety Helmets offers the best combination of exceptional comfort; simple integration of additional personal protective equipment and modern stylish design. KARAM range of Safety Helmets is a testimony to a service that has constantly evolved to provide the finest in Head Protection to personnel working under the most challenging industrial environments.



Scan here for a virtual tour of the product

Standards At A Glance



KARAM Safety Helmets are tested and certified to the norms EN 397 and IS 2925 for protection against falling objects and consequential brain injury and skull fracture.

EN 397

Mandatory requirements: All Helmets certified according to EN 397 must meet these requirements:

- Shock absorption test
- Penetration resistance test
- Flame resistance test
- Chin strap test

Optional requirements: A Helmet certified in accordance with EN 397 may meet these requirements; they are, however, not mandatory requirements:

- Very low temperatures (-20 °C or -30 °C)
- Very high temperatures (+ 150 °C)
- Electrical insulation (440 V)
- Molten metal (MM)
- Lateral deformation

IS 2925

Mandatory requirements: All Helmets certified according to IS 2925 must meet these requirements:

- Shock absorption test
- Penetration test
- Electrical resistance test
- Flame resistance test
- Heat resistance test



SHOCK ABSORPTION TEST



PENETRATION RESISTANCE TEST

← Testing
↓

TESTED & CERTIFIED



CONDITIONING CHAMBER



LATERAL DEFORMATION TEST

KARAM SAFETY HELMETS

- Built to Last
- Maximum Protection and Extra Comfort
- Superior Performance

Increased Vertical Clearance for Optimum Shock Absorption

Corrugations for Enhanced Strength

Adjustable to suit most head sizes



Adjustable Chin Strap for Universal Adjustment

Rain Management System for managing the Rain to reduce the flow of Water down the neck

FEATURES OF KARAM SAFETY HELMETS



Slider type adjustment for optimum fit



Manual type adjustment to suit most head sizes



Non-irritant head band for good absorption of sweat



Ratchet type adjustment for comfort and better grip



4 point cradle attachment for optimum shock absorption



Extended nape for extra impact protection to the user's neck



Side Slots for fitting face and hearing protection accessories



6 point cradle attachment for reduction of point impact

ADDITIONAL FEATURES OFFERED ON REQUEST



Replaceable chin strap



Chin cup



Adjustable slider buckle



Lamp Bracket and Cable Clip

KARAM SAFETY HELMETS

KARAM range of Safety Helmets comes with a plethora of features that not only offer the protection intended but also the comfort and design that ensures usage for prolonged working hours.

- **Performance and Protection:** Prepared for real-life harsh industrial conditions, KARAM Safety Helmets minimize and effectively disperse the impact forces.
- **All-day Comfort:** Equipped with all the features of light-weight, rigid nature, and comfortable in wearing, KARAM Safety Helmets can be worn continuously for long durations.
- **Balanced and Stable:** With a secure head harness and a low profile design, KARAM Helmets deliver maximum stability and perfect balance.
- **Built to Last:** Manufactured from virgin premium grade, UV stabilized Polymers with no regrind, KARAM Safety Helmets are built to withstand the toughest of environments.
- **Tested and Certified:** KARAM Safety Helmets are tested and certified to all relevant standards.



Extensive PPE Connectivity

KARAM Safety Helmets can be fitted with a variety of additional Personal Protective Equipment such as:



Welding Screens



Polycarbonate Visor

The Helmet Inner Harness is available in two options - Webbing or Polymer as per customer need.

Branding Services: KARAM Safety Helmets are an ideal product to display your company logo upon. With large branding areas and multi positions, logos can be printed to offer a professional corporate identity.



SHELMET

Ref. PN 501

➤ **IDEAL FOR USE**

Construction industry and in all other industries where there is a risk of being injured from falling objects or when working in areas with restricted head space.

➤ **GENERAL FEATURES**

- Triple corrugation for enhanced strength.
- Made up of polypropylene co-polymer.
- Increased vertical clearance for optimum shock absorption.
- Extended nape for extra impact protection to the user's neck.

➤ **ALSO AVAILABLE**

Ratchet type adjustment Ref. PN 521

➤ **CERTIFIED TO**

IS 2925:1984



IS 2925:1984



SHELBLAST

Ref. PN 541

➤ **IDEAL FOR USE**

Construction industry and in all other industries where there is a risk of being injured from falling objects or when working in areas with restricted head space.

➤ **GENERAL FEATURES**

- Dual corrugation.
- Made up of polypropylene co-polymer.
- Increased vertical clearance for optimum shock absorption.
- Extended nape for extra impact protection to the user's neck.
- Has ventilated slots which can be opened / closed with the help of a shutter to prevent any rain water seepage.

➤ **ALSO AVAILABLE**

Ratchet type adjustment Ref. PN 542.

Shelblast is also available with Peak-less design Ref. PN 545 having slider type adjustment and Ref. PN 546 with ratchet type adjustment.

➤ **CERTIFIED TO**

EN 397:2012+A1:2012



Scan here for a virtual tour of the product



EN 397:2012+A1:2012



SHELTEK

Ref. PN 561

► IDEAL FOR USE

Construction industry and in all other industries where there is a risk of being injured from falling objects or when working in areas with restricted head space.

► GENERAL FEATURES

- Quadro corrugation for enhanced strength.
- Made up of polypropylene co-polymer.
- Increased vertical clearance for optimum shock absorption.

► ALSO AVAILABLE

Ratchet type adjustment Ref. PN 581

► CERTIFIED TO

- EN 397:2012+A1 2012
- IS 2925:1984



The helmet inner harness is available in options of webbing and polymer as per customer's need.

Safety Helmets Variant Chart

	Shelmet PN 501	Shelmet PN 521	Shelblast PN 541	Shelblast PN 542	Shelblast PN 545	Shelblast PN 546	Sheltek PN 561	Sheltek PN 581
Corrugation	Triple	Triple	Dual	Dual	Dual	Dual	Quadro	Quadro
Cradle Attachment Points	4	4	6	6	6	6	6	6
Type of Adjustment	Manual Type	Ratchet Type	Slider Type	Ratchet Type	Slider Type	Ratchet Type	Slider Type	Ratchet Type
Crown Cooling Vents	✗	✗	✓	✓	✓	✓	✗	✗
Rain Management System	✓	✓	✓	✓	✓	✓	✓	✓
Protective Peak	✓	✓	✓	✓	✗	✗	✓	✓
Ventilated Slots	✗	✗	✓	✓	✓	✓	✗	✗
Side Slots	✓	✓	✓	✓	✓	✓	✓	✓
Adjustable Chin Strap	✓	✓	✓	✓	✓	✓	✓	✓

SAFETY HELMETS COLOUR PALETTE

Orange	Red	UT Violet	Lamination Blue	Star Blue	Fluorescent Green	Mint Green	Hybrid Green	Lemon Yellow	Super White	Apex Grey	Dark Brown



EYE PROTECTION



KARAM presents a range of Safety Spectacles providing superior quality, optimum protection and comfort to the user. The complete range of Safety Spectacles by KARAM is CE certified.



Scan here for a virtual tour of the product

Standards at a Glance

EN 166 - Personal Eye Protectors

Provides protection against various hazards, encountered in industry, laboratories, educational establishments, DIY activities etc. which are likely to damage the eye or impair vision, with the exception of nuclear radiation, X-rays, laser beams and low temperature Infrared(IR radiation emitted by low temperature sources).

Requirements: All Eyewear certified according to EN 166 must meet these requirements:

- Optical Clarity Class 1 (-0.06 D to +0.06 D)
- Lateral Vision protects against impacts from the side
- Protection against high speed particles at extremes of temp. -Impact tested after conditioning at 55°C and -5°C
- UV Protection Transmittance of 0.0003% for 313nm & 10% of 365nm
- Materials will not cause skin irritation and free from sharp edges which cause discomfort or injury
- Resistance to Impact 6mm dia steel ball weighing 0.86g Eyewear - Low impact (45m/s) Goggles - Medium impact (120m/s)
- Goggles - Protection against droplets & splashes of liquid
- Resistance to fog
- Resistance to scratch

Basic Requirements

- Field of Vision
- Optical Requirements
- Quality of Material and Surface
- Robustness
- Resistance to Ageing
- Resistance to Corrosion
- Resistance to Ignition



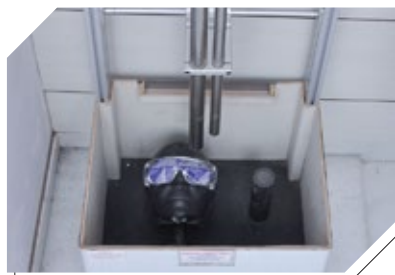
FIELD OF VIEW TEST



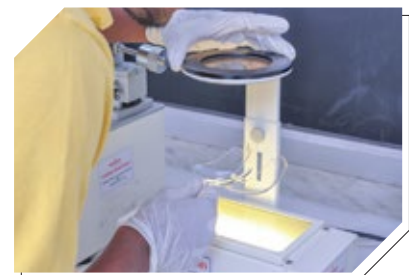
QUALITY OF MATERIAL AND SURFACE TEST

← Testing
↓

TESTED & CERTIFIED



DROP BALL IMPACT TEST



STRESS VIEW TEST

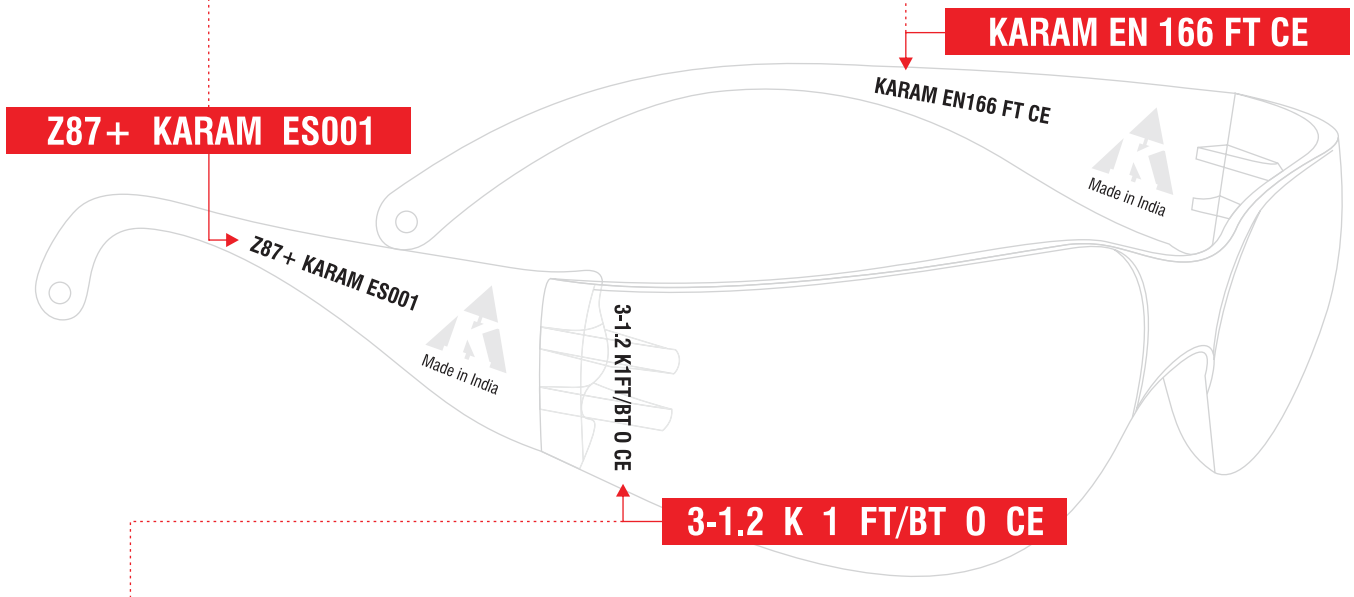
MARKING ON KARAM SAFETY EYEWEAR

On Temple (on one side)

Marking	Meaning
Z87+	ANSI Standard
KARAM	Manufacturer Identity
ES001	Product Reference Number

On Temple (on another side)

Marking	Meaning
KARAM	Manufacturer Identity
EN166	EN Standard
FT	F- Low Energy Impact T- Tested at Elevated Temperatures
CE	Certification Mark



On Lens

Marking	Meaning
3-1.2	Lens Scale Number
K	Manufacturer Identification (KARAM)
1	Class
FT/BT	F- Low Energy Impact T- Tested at Extreme Temperatures B- Medium Energy Impact T- Tested at Extreme Temperatures
0	Originality
CE	Certification Mark

KARAM SAFETY EYEWEAR

- Maximum Safety
- Light in Weight
- Excellent Vision
- Exceptional Impact



Anti-Fog Lenses-

To make sure that no fogging appears on those models of Spectacles that seal the face area



Redefining the Ergonomics-Adjustable Models to fit one and all



Anti-Static Lenses



Sleek and Fashionable, offering all comfort features



Scratch-Resistant Lenses- To maintain the clear vision



Indoor/Outdoor Lenses- For use in all conditions of light modulations



Also available- Models of Spectacles that fit over the prescription glasses as well



IS 5983:1980



An Ultra lightweight model offering the highest level of eye protection against high speed particles.



ES 001 (Clear) (PK)



ES 001 (Clear)



ES 001 (Smoked) (NG)

CONSTRUCTION WORKER'S CHOICE

Ref. ES 001

IDEAL FOR USE

In construction sites; areas where sand and large dust particles are blowing at high speed and metal processing shops.

GENERAL FEATURES

- Extremely lightweight with a flexible temple to ensure a snug fit on all users.
- Unique wrap-around design for better coverage.
- Provides optimum protection against harmful UV radiation.
- Provided with a clock on the temple to display the month and year of manufacturing.
- Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.



ANSI Z 87.1-2010



EN 166:2001
EN 167:2002
EN 172:1994+A1:2000 & A2:2001
EN 168:2002



With all the Inherent design, ES 003 comes with an additional protective quality to offer. It is fitted with a special IR-5 lens, making it is an ideal choice for protection to the eyes during welding operations.

GAS WELDER'S CHOICE

Ref. ES 003

IDEAL FOR USE

Areas involving molten metal, furnaces and welding operations.

GENERAL FEATURES

- Extremely lightweight.
- Unique wrap-around design for better coverage.
- Temple grip equipped with Thermoplastic elastomer molding, making it more comfortable for all day use.
- Temple/side arms capable of tilting within a wide range (upto 60 degree) thereby adjusting to provide the best possible fit.
- Adjustable temple length to customize fit on the user's head. Length adjustable within a range of 13mm.
- Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.



ANSI Z 87.1-2010



EN 166:2001



ELECTRIC ARC WELDER'S CHOICE

Ref. ES 004

► IDEAL FOR USE

Best suited for electric arc welding, mig, tig and other electrical welding operations.

► GENERAL FEATURES

- Has a wide soft PVC body which provides an excellent comfort to the wearer.
- It is provided with a flip-up window to enable clear vision during those times when welding operation is not in progress.
- It is provided with four indirect ventilation caps- two on top and two at bottom.
- Comes with fully adjustable elastic head-band for a snug fit.
- Lens can easily be replaced.
- Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.



Equipped with a special IR-11 lens and a broad soft PVC body which provides the wearer a wider protective sealing area, the ES 004 is an ideal choice for a variety of electric arc welders.



ANSI Z 87.1-2010



EN 166:2001
EN 175:1997

EXECUTIVE CHOICE

Ref. ES 005

► IDEAL FOR USE

In construction sites; areas where sand and large dust particles are blowing at high speed and metal processing shops.

► GENERAL FEATURES

- Extremely lightweight with a hard-coated lens for scratch resistance.
- Wrap-around design for better coverage.
- Adjustable temple length within a range of 14mm to customize the fit on the user's head.
- Provides optimum protection against harmful UV radiation.
- Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.



IS 5983:1980



When it comes to fashion and styling combined with the optimum level of eye protection against high-speed particles, the ES 005 becomes an ideal choice for the wearer.



ES 005(Smoked)



ANSI Z 87.1-2010



EN 166:2001
EN 167:2002
EN 172:1994+A1:2000 & A2:2001
EN 168:2002



EXECUTIVE CHOICE

Ref. ES 006

▶ IDEAL FOR USE

In areas where light conditions change from normal to bright.

▶ GENERAL FEATURES

- Unique wrap-around design for better coverage.
- Adjustable temple length within a range of 14mm to customize the fit on the user's head.
- Equipped with specially designed soft nose-pad to provide extra comfort.
- Provides optimum protection against harmful UV radiation.
- Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.

IS 5983:1980



Designed for both indoor as well as outdoor usage, and fitted with light mirror coated lens, the ES 006 is an ultimate symbol of fashion and styling, coupled with complete eye safety.



ES 006(Smoked)



ES 006(Indoor/Outdoor)



ANSI Z 87.1-2015

EN 166:2001



PRESCRIPTION-GLASSES WEARER'S CHOICE

Ref. ES 007

▶ IDEAL FOR USE

In construction sites; areas where sand and large dust particles are blowing at high speed and metal processing shops.

▶ GENERAL FEATURES

- It can easily fit over most prescription Spectacles.
- Provides optimum protection against harmful UV radiation.
- Comes with adjustable temples to provide a better fit for the wearer.
- Tested at elevated temperatures, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.

IS 5983:1980



To provide comfort and protection to users wearing prescription glasses, ES 007 provides a perfect fit over prescription glasses.



ES 007(Clear)(NG)



ANSI Z 87.1-2020

EN 166:2001



IS 5983:1980

Providing fail-proof protection against liquid and chemical splashes, ES 008 comes with unique wrap-around design and a specialized anti-fog lens.



ES 008(Smoked)



ANSI Z 87.1-2010



EN 166:2001

CHEMICAL ENVIRONMENT USER'S CHOICE

Ref. ES 008

IDEAL FOR USE

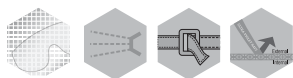
Areas exposed to chemical and liquid splashes.

GENERAL FEATURES

- Comes with soft and wide PVC casing around the rim to ensure 100% sealing of the eyes against chemical and liquid splashes.
- Provided with Indirect ventilation slits on both the top and the bottom parts of the rim to allow for air circulation.
- Equipped with fully adjustable elastic headband for snug fit.
- Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.



IS 5983:1980



To provide an ultimate level of eye protection from chemical and liquid splashes, ES 009 becomes an ideal choice for the wearer.



ES 009(Smoked)



ANSI Z 87.1-2020



EN 166:2001

CHEMICAL ENVIRONMENT USER'S CHOICE

Ref. ES 009

IDEAL FOR USE

In chemical, pharmaceutical and paint industries; areas exposed to splashes of chemicals.

GENERAL FEATURES

- Comes with a unique wrap-around design
- A hardened anti-fog coated lens offers superior vision to prevent the building up of mist.
- Provides optimum protection against harmful UV radiation.
- Has a soft PVC shroud around the lens to ensure 100% sealing of the eyes against chemical and liquid splashes.
- The shroud has 4 ventilation caps, 2 on the top and 2 at the bottom of the frame. These are special one-way vents that allow air movement while keeping harmful liquid-splashes out.
- Has a fully adjustable elastic headband for a snug fit.
- Tested at elevated temperatures, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.



Technical Snapshot

Range	Ref.	Material of Lens	Lens Scale No.	Weight	Lens Shade Options	Certified to
Construction worker's Choice	ES 001	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	Clear: 3-1.2 Smoked: 5-3.1	26 gms approx	Clear Smoked Smoked (NG) Clear(NG) Clear antifog Clear(PK)	ES 001 (Clear) certified to IS 5983:1980 EN 166:2001 EN 167:2002 EN 172:1994+A1:2000 & A2:2001 EN 168:2002 Conforms to ANSI Z 87.1-2010
Gas Welder's Choice	ES 003	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	4-5 IR-5	36 gms	Single lens option using IR-5 lens	EN 166:2001 Conforms to ANSI Z 87.1-2010
Electric Arc Welder's Choice	ES 004	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	IR-11	180 gms	Single lens option using IR-11 lens	EN 166:2001 EN 175:1997 Conforms to ANSI Z 87.1-2010
Executive Choice	ES 005	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	Clear: 3-1.2 Smoked: 5-3.1	26 gms approx	Clear Clear antifog Smoked	ES 005 (Clear) certified to IS 5983:1980 EN 166:2001 EN 167:2002 EN 172:1994+A1:2000 & A2:2001 EN 168:2002 Conforms to ANSI Z 87.1-2010
Executive Choice	ES 006	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	Clear: 3-1.2 Indoor/Outdoor: 5-1.7	34 gms approx	Clear Indoor/Outdoor Smoked Clear antifog	EN 166:2001 Conforms to ANSI Z 87.1-2015
Prescription-Glasses wearer's Choice	ES 007	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	Clear: 3-1.2	54 gms approx	Clear (NG) Clear Clear antifog	ES 007 (Clear) certified to IS 5983:1980 EN 166:2001 Conforms to ANSI Z 87.1-2020
Chemical Environment User's Choice	ES 008	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	Clear: 3-1.2 Smoked: 5-3.1	105 gms approx	Clear antifog Smoked	ES 008 (Clear) certified to IS 5983:1980 EN 166:2001 Conforms to ANSI Z 87.1-2010
Chemical Environment User's Choice	ES 009	High Impact resistant optical class 1 anti-scratch coated Polycarbonate lens for scratch resistance.	Clear: 3-1.2 Smoked: 5-3.1	70 gms approx	Clear Smoked	ES 009 (Clear) certified to IS 5983:1980 EN 166:2001 Conforms to ANSI Z 87.1-2020



IS 5983:1980



3 STEPS FOR TEMPLE ADJUSTABILITY



When it comes to fashion and styling, combined with superior eye protection, the ES 015 becomes an ideal choice for the wearer.

EXECUTIVE CHOICE

Ref. ES 015

IDEAL FOR USE

In construction sites; areas where sand and large dust particles are blowing at high speed; metal-processing shops.

GENERAL FEATURES

- Offers exceptional impact resistance with excellent vision.
- Adjustable temple length within a range of 15mm to customize the fit on the user's head.
- Provides optimum protection against harmful UV radiation.
- Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested.
- Tested for disinfection and increased robustness.



ANSI Z 87.1-2015



EN 166:2001

NEW



ES 015 (Smoked)

NEW



ES 015 (Clear)(NG)

NEW



ES 015 (Smoked)(NG)

NEW



ES 015 (Clear)

NEW



ES 015 (Amber)(MB)

NEW



ES 015 (Smoked)(MB)

Technical Snapshot

Range	Ref.	Material of Lens	Lens Scale No.	Weight	Lens Shade Options	Certified to
Executive Choice	ES 015	High Impact resistant optical class 1 polycarbonate hard-coated lens for scratch resistance.	Clear: 3-1.2 Smoked: 5-3.1	30 gms approx	Smoked Clear (MB) Smoked (MB) Clear (NG) Smoked (NG)	ES 015 (Certified) to IS 5983:1980 EN 166:2001 Conforms to ANSI Z87.1-2015

ACCESSORY



BLACK SPECTACLE NECK-STRING

Ref. ESA 02

Can be easily fitted to the temple-arms of the KARAM Spectacles and worn around the neck.

SYMBOLS USED FOR EYE PROTECTION



No Image Distortion



High Impact Protection



Side Arm Length Multiple Positions



Over Prescription Glasses



Chemical Splash



Head Band Adjustable



Ultra-Violet Protection

HEARING PROTECTION



Using the right Hearing Protection equipment is vital in a specific industry situation. For Safety, Productivity and Comfort, it must reduce unwanted sound by the right amount, not too little and not too much. KARAM provides Safety solutions for different individuals and applications with a wide range of Ear Muffs and Ear Plugs.

Standards at a Glance

KARAM Ear Protectors are tested and certified to the norms to provide Protection in areas prone to a high decibel sound.

EN 352-1 for Ear Muffs

Requirements: All hearing protectors certified according to EN 352-1 must meet these requirements:

Materials and construction

Physical Testing

- Sizing and adjustability
- Material and Construction
- Cup Rotation
- Headband force and Cushion pressure
- Resistance to damage when dropped
- Change in headband force
- Minimum attenuation
- Ignitability assessment
- Cleaning and Disinfection

EN 352-2 for Ear Plugs

Requirements: All hearing protectors certified according to EN 352-2 must meet these requirements:

Material and Construction

Physical Testing

- Sizing and adjustability assessment
- Resistance to damage
- Material and Construction
- Ignitability assessment
- Cleaning and disinfection
- Minimum attenuation

EN 352-3 for Helmet Mounted Ear Muffs

Requirements: All hearing protectors certified according to EN 352-3 must meet these requirements:

Materials and construction

Physical Testing

- Sizing and adjustability
- Material and Construction
- Cup Rotation
- Headband force and Cushion pressure
- Resistance to damage when dropped
- Change in headband force
- Minimum attenuation
- Ignitability assessment
- Cleaning and Disinfection



It is important to use suitable hearing protectors to safeguard against overexposure to Noise

Permissible Noise Exposures as per OSHA 29 CFR 1910.95	
Sound level (decibel: dB)	Duration in hours
90	8
92	6
95	4
97	3
100	2
102	1½
105	1
110	½
115	¼ or less

Average decibel levels in some of the common industrial and work areas	
Noise source	Average decibel level: dB
Jet take-off (at distance of 25m)	105
Aircraft carrier deck	140
Thunderclap, chain saw, oxygen torch (121dB)	120
Steel mill, auto horn at 1 meter. Turbo-fan aircraft at takeoff power at 200 ft (118dB). Riveting machine (110dB)	110
Power mower (96dB); newspaper press (97dB)	90
Average factory, milling machine (85dB)	80
Conversation in restaurant, office, background music	60
Conversation at home	50
Whisper, rustling leaves	20

KARAM EAR MUFFS

- Highly Durable and Comfortable
- Provides high dB Attenuation

Soft cushioned pads for a good seal against noise

Adjustable head band

Easy to clean and store

Generous space inside the cup to help the ears breathe for increased comfort



KARAM EAR PLUGS

- Comfortable
- Convenient- Available in corded / uncorded
- Provides a snug and secure custom fit

One size fits all ear canals

Extremely easy to use

Seals the ear canal for noise reduction

Reduces ear canal pressure for outstanding comfort throughout the day



► EAR PLUGS

KARAM Ear Plugs are an ideal choice for Ear Protection during long hours of exposure in areas prone to a high decibel sound.

Ref. EP 01(Uncorded)



Ref. EP 02(Corded)



DISPOSABLE FOAM EAR PLUGS

► IDEAL FOR USE

In grinding, drilling, milling operations, newspaper and press industry etc.

► GENERAL FEATURES

- Made up of non-irritant and non-allergic material.
- The soft foam provides a comfortable and close-fitting seal against harmful noise.
- Easy to insert due to the tapered shape and moderately slow expansion rate.
- Corded in fluorescent orange colour (Ref. EP 02 (corded)).
- Also available in cotton cord.

► CONFORMS TO

EN 352-2:2002

DISPENSER FOR EAR PLUG - EP 01

Ref. EP 300

Can contain 300 pairs at a time and be easily refilled.

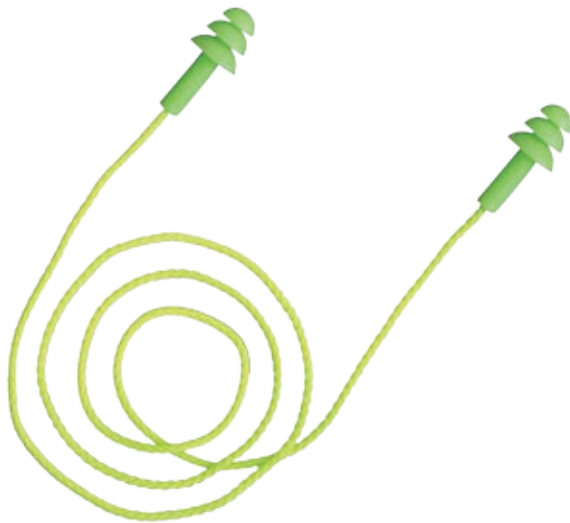




Ref. EP 03(Uncorded)



Ref. EP 04(Corded)



REUSABLE EAR PLUGS

➤ **IDEAL FOR USE**

In grinding, drilling, milling operations, newspaper and press industry etc.

➤ **GENERAL FEATURES**

- Made up of non- irritant and non-allergic material.
- Special flange design for maximum comfort.
- Draped around the neck, the cotton corded ear plug (Ref. EP 04) rests secured with the user.
- Washable and reusable.

➤ **CONFORMS TO**

- EN 352-2:2002
- ANSI Z 3.19
- ANSI Z 12.6



ANSI Z 3.19
ANSI Z 12.6

Technical Snapshot

Product	Ref.	Material	Size of Cord	SNR	Conforms to
Disposable Foam Ear Plugs	EP 01	PU	Universal	34dB	EN 352-2:2002
	EP 02	Cord Material: Nylon Uncord Material: PU		34dB	EN 352-2:2002
Reusable Ear Plugs	EP 03	TPR		27dB	EN 352-2:2002 ANSI Z 3.19 ANSI Z 12.6
	EP 04	Cord Material: Cotton Uncord Material: TPR		27dB	EN 352-2:2002 ANSI Z 3.19 ANSI Z 12.6

➤ **EAR MUFF**

KARAM Ear Muffs are versatile, apt for usage during a shorter duration of exposure to unwanted sound and come with different features, like helmet-mountable, foldable etc.



EAR MUFF CLASSIC

Ref. EP 21

➤ **IDEAL FOR USE**

In Airports, excavation equipment, generators, high frequency welding etc.

➤ **GENERAL FEATURES**

- Lightweight and extremely comfortable.
- Consists of Special ABS Ear cups for durability.
- Comes with 3 adjustable positions.
- Has soft cushioned pads for a good seal against noise.

➤ **CERTIFIED TO**

EN 352-1:2002



EN 352-1:2002



EAR MUFF FOLDABLE DELUXE

Ref. EP 22

➤ **IDEAL FOR USE**

In Industrial applications like agricultural, construction, heavy machinery, etc.

➤ **GENERAL FEATURES**

- Lightweight and extremely comfortable.
- Has a soft padded plastic headband that can be folded for dust-free storage in a pocket or a bag.
- Has soft cushioned pads for a good seal against noise.

➤ **CERTIFIED TO**

EN 352-1:2002



EN 352-1:2002

Technical Snapshot

Product	Ref.	Material	SNR	Weight	Certified to
Ear Muff Classic	EP 21	ABS	27dB	180.0 gms	EN 352-1:2002
Ear Muff Foldable Deluxe	EP 22		30dB	230.0 gms	



HELMET ATTACHABLE EAR MUFF

Ref. EP 23

➤ **IDEAL FOR USE**

In Industrial applications like agricultural, construction, heavy machinery, etc.

➤ **GENERAL FEATURES**

- Designed specially to use with Helmets.
- Comes with Spring loaded stand-off function to press firmly to the ear for better seal against noise.
- Has Easy snap-on/Off mechanism for Helmet mounting.
- Has Soft cushioned pads for a good seal against noise.

➤ **CERTIFIED TO**

EN 352-3:2002



EN 352-3:2002



EAR MUFF HIGH dB FOLDABLE

Ref. EP 24

➤ **IDEAL FOR USE**

In medium to heavy industrial applications.

➤ **GENERAL FEATURES**

- Provides high dB attenuation with extra protective cups.
- Has soft cushioned pads as a good seal against noise.
- Has padded headband for optimum comfort to the user.
- Has soft padded plastic head band which can be folded for dust free storage in a pocket or a bag.

➤ **CERTIFIED TO**

EN 352-1:2002



EN 352-1:2002

Technical Snapshot					
Product	Ref.	Material	SNR	Weight	Certified to
Helmet Attachment Ear Muff	EP 23	ABS	25dB	260.0 gms	EN 352-3:2002
Ear Muff High dB Foldable	EP 24		33dB	305.0 gms	EN 352-1:2002

NOTE



A series of horizontal dotted lines spanning the width of the page, intended for taking notes.

FACE PROTECTION



KARAM Face and Welding Shields are specifically designed to protect the wearer's face from impact felt from the front and side. They also provide protection against harmful radiation including visible light, UV/IR radiation resulting from welding processes.

Standards at a Glance

EN 166 - Requirements for Protective Eyewear

This standard applies to all types of personal eye-protectors used against various hazards, as encountered in industry, laboratories, etc. which are likely to damage the eye or impair vision, with the exception of nuclear radiation, X-rays, laser beams and low temperature infrared (IR) radiation emitted by low temperature sources.

EN 169 - Requirements for filters intended to protect operators performing welding-related work

This standard specifies the scale number and transmittance requirements for filters intended to protect operators' performing welding related work.

EN 175 - Equipment for Eye and Face Protection during Welding and Allied Processes

This standard specifies safety requirements and test methods for personal protective equipment which protects the operators eyes and face against harmful optical radiation.

KARAM FACE PROTECTION

- Comfortable
- Durable
- Maximum Protection



TESTED & CERTIFIED



PENETRATION RESISTANCE TEST

← Testing



HIGH VELOCITY IMPACT TEST



FACE SHIELD

Ref. ES 51

The high-quality product protects against impact from the front and side.

► IDEAL FOR USE

In heavy engineering industry, construction sites, carpentering, grinding, electric welding, forestry, petroleum and chemical industry.

► GENERAL FEATURES

- Optical class 1 visor for clear and undistorted vision.
- Can be mounted onto KARAM Safety Helmets (Shelmet, Sheltek and Shelblast).
- Has a removable visor for easy replacement.

► CERTIFIED TO

- EN 166:2001
- IS 8521-1:1977
- ANSI Z87.1-2020



ANSI Z87.1-2020

IS 8521-1:1977

EN 166:2001



WELDING HELMET

Ref. ES 61

Provides complete protection to the user's face during welding operations.

► IDEAL FOR USE

In performing welding operations.

► GENERAL FEATURES

- Equipped with a flip-up front window that the user can choose to open when not operating.
- Has removable lens which is tested against EN 175 and EN 169.
- Headband of the Welding Helmet has 4 adjustment positions and is provided with an anti-sweat comfort pad for increased comfort. Consists of ratchet adjustment for easy harness adjustment.

► CERTIFIED TO

EN 175:1997



EN 175:1997

► THE IR LENS IS PROVIDED EXTRA AS PER CHOICE

- ES 04/5: is an IR 5 lens
- ES 04/11: is an IR 11 lens

Accessory

ES 61(01) inner harness

Features of the head fitting harness of Welding Helmet ES 61



Horizontal adjustment feature to provide comfort to the user when moving the shell closer or farther from the face.



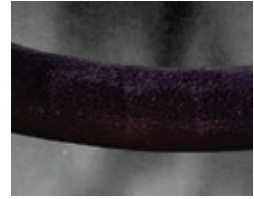
Knob for adjusting the height of the shell.



The Ratchet at the nape allows easy adjustment of the harness.



4 adjustment positions for adjusting the stop angle of the Shield.



Anti-sweat comfort pad for increased comfort.



HELMET MOUNTABLE WELDING SHIELD

Ref. ES 71

Provides complete protection to the user's face during welding operations. Should be used only in conjunction with a safety Helmet, and should not be used independently.

➤ IDEAL FOR USE

During welding operations.

➤ GENERAL FEATURES

- Equipped with a flip front window that the user can choose to open when not performing an operation.
- Has adapter clamps for Helmet mounting and adjustment knobs for easy and perfect fitment.
- When fitted, it will protect the wearer's face due to the special wrap-around design and fits most standard safety Helmets which have a 30.0mm accessory attachment slot.
- IR 11 lens is inserted between two protective lenses conforming to EN 166 and ANSI Z 87.1 for increased protection.
- Has removable lens that is tested against EN 175 and EN 169.
- Can be fitted on KARAM Helmets (Shelmet, Sheltek and Shelblast).



EN 175:1997

Technical Snapshot

Product	Ref.	Material	Size of Window	Operating Range	Certified to
Face Shield	ES 51	Material of Lens: High impact resistant polycarbonate for increased protection.	203.2mm x 393.7mm	NA	EN 166:2001 IS 8521-1:1977 ANSI Z87.1-2020
Welding Helmet	ES 61	Material of Lens: High impact resistant polycarbonate for increased protection; Material of Shell: Polypropylene impact resistant shell.	100mm x 75mm	-50 °C to +80°C and tested for electrical insulation.	EN 175:1997
Helmet Mountable Welding Shield	ES 71	Material of Lens: High impact resistant polycarbonate; Material of Shell: Polypropylene impact resistant shell.	100mm x 75mm	-50°C to +80°C and tested for electrical insulation.	EN 175:1997



NEW

KARAM is proud to introduce a wide array of performance Workwear clothing, highly popular and ideally suited for use in industrial applications. Also, available in customized specifications as per the requirements of our esteemed customers, KARAM performance Workwear clothing is well tested on various quality parameters and conforms to CE category 1 (minimal risk) norms.



Scan here for a virtual tour of the product

Introduction To Protective Workwear

Protective Workwear includes items of Personal Protective Equipment (PPE) that are designed to keep the wearer safe from needless risk and danger. These risks and dangers can be related to fire, molten metal splashes, thermal hazards, biological pathogen, weather, toxic chemicals, puncture, contamination, electrical charge, or low visibility and should be provided with appropriate relevant clothing to mitigate risks.

The performance of Protective Workwear is dependent upon the material and design of construction. Items of safety apparel typically have a specific purpose and the garment may not be suitable for applications outside of the manufacturer's recommendation. Employers are required to assess occupational risks, provide PPE, and train employees in its usefulness. Safety clothing is generally a necessary last line of defense from peril from unforeseen circumstances and is one of the best ways of protecting workers from injury.

The protective clothing may take the form of aprons, coveralls, coats, pants, hats, hoods, sleeves, gloves, and fully encapsulating chemical protective suits.

Some of the characteristics in Protective Workwear that we need to keep in mind:

- Wool and specially treated cotton clothing are fire-resistant and comfortable.
- Heavy fabrics protect against cuts and bruises from heavy, sharp or rough materials.
- Synthetic materials may catch fire more easily.

The protective workwear material is designed for specific applications and performances therefore they are passed through various testing methods and certifications depending on the applications defined by the European Union (CE), United States (ANSI), India (BIS) to name a few.



TESTED & CONFORMS



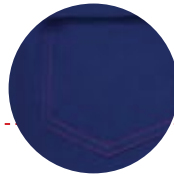
NEW

REGULAR RANGE

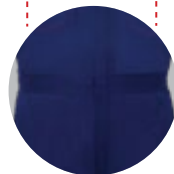
Ideal for use in general working conditions. Designed for an excellent fit and comfort of the wearer for longer durations, this KARAM workwear has been manufactured to the highest level of garment manufacturing standards. This range is equipped with 5 thread overlock and stress points are bar-tacked reinforced for increased tear strength. The Workwear fabric conforms to the highest level of colourfastness, seam slippage and tensile strength in its category.

Ref. PW 1101

Ref. PW 1201



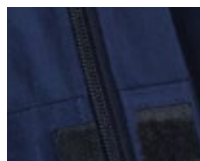
➤ High-quality thread of contrast color used for stitching.



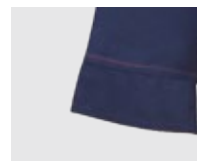
➤ Elasticized waist for better fit.



➤ 2 Inch reflective tape on chest, back, arms and legs.



➤ Highest quality concealed front zipper used in manufacturing.



➤ Plain straight cuff.

Technical Snapshot

Ref.	Material	GSM	Chest Pockets	Side Opening Pockets and Hip Pocket	Tools Pocket	Piping	Pen and Spectacles Holder	Reflective Tape
PW 1101	100% Cotton twill	GSM 200±5%	✓	✓	✓	✗	✓	✗
PW 1201	100% Cotton twill	GSM 200±5%	✓	✓	✓	✗	✓	✓

➤ **CONFORMS TO**
CE Category I

Colors available



*Note: There may be slight variations in the actual colour due to photos taken under different light conditions.
KARAM Protective Workwear are also available in 220/240/270/300 GSM on request.

NEW

PREMIUM RANGE

Ideal for use in general working conditions. Consists of contrast color lining for an added look good factor to the Workwear for senior executives in the company. The usage of 500 cd/lux reflective tape that does not degrade on every wash cycle is an added advantage. Designed for an excellent fit and comfort of wearing for longer durations, the Premium range of Workwear has been manufactured to the highest level of garment manufacturing standards. This range is equipped with 5 thread overlock and stress points are bar tacked reinforced for increased tear strength. The coverall fabric conforms to the highest level of color fastness, seam slippage and tensile strength in its category.

Ref. PW 2101



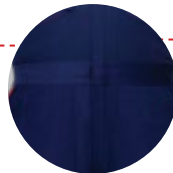
Ref. PW 2201



➤ Advance reflective tape design on the chest, back, arms and legs.



➤ High-quality thread of contrast color used for stitching.



➤ Elasticized waist for better fit.



➤ Highest quality concealed front zipper used in manufacturing.



➤ Cuffs with snap button closure.



➤ New design with contrast color piping on pockets and collar.

Technical Snapshot

Ref.	Material	GSM	Chest Pockets	Side Opening Pockets and Hip Pocket	Tools Pocket	Piping	Pen and Spectacles Holder	Reflective Tape
PW 2101	100% Cotton twill	GSM 200±5%	✓	✓	✓	✓	✓	✗
PW 2201	100% Cotton twill	GSM 200±5%	✓	✓	✓	✓	✓	✓

➤ **CONFORMS TO**
CE Category I

Colors available

Primary	Piping
Navy Blue	Red
Orange	Navy Blue



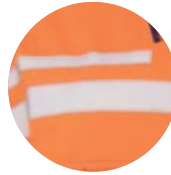
*Note: There may be slight variations in the actual colour due to photos taken under different light conditions. KARAM Protective Workwear are also available in 220/240/270/300 GSM on request.

NEW

Ref. PW 2102



Ref. PW 2202



➤ Advance reflective tape design on chest, back, arms and legs.



➤ High-quality thread of contrast color used for stitching.



➤ 2-way Zipper



➤ Highest quality concealed front zipper used in manufacturing.



➤ Cuffs with snap button closure.



➤ New design with contrast color piping on pockets and collar.

Technical Snapshot

Ref.	Material	GSM	Chest Pockets	Side Opening Pockets and Hip Pocket	Tools Pocket	Piping	Pen and Spectacles Holder	Reflective Tape
PW 2102	100% Cotton twill	GSM 200±5%	✓	✓	✓	✓	✓	✗
PW 2202	100% Cotton twill	GSM 200±5%	✓	✓	✓	✓	✓	✓

➤ **CONFORMS TO**
CE Category I

Colors available

Primary	Piping
Navy Blue	Red
Orange	Navy Blue



*Note: There may be slight variations in the actual colour due to photos taken under different light conditions.
KARAM Protective Workwear are also available in 220/240/270/300 GSM on request.

NEW FIRE RESISTANT RANGE

KARAM introduces the exclusive range of Flame Resistant Protective Workwear specially designed to protect the wearer from injury due to flames when exposed to flammable chemicals, solvents and arc flash hazards. Made from Inherent FR Fabric, this lightweight flame resistant garment offers great protection where there is a need for clothing with limited flame spread properties and where the user is exposed to contact with flame (Code A), convective heat (Code B), radiant heat (Code C) and contact heat (Code F).

The range is equipped with multi-functional pockets along with three stitches over locked seams with elasticated waist for best fit.

Stitched with FR thread, the range offers durability with compliance. Also, available with high visibility reflective tapes offering 360-degree reflectivity.

Ref. PWIFR 11011K



Ref. PWIFR 12011R



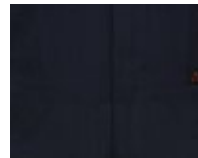
▶ Advance reflective tape design on the arms and legs.



▶ Highest quality concealed front Zipper



▶ Pen/Small Tool Holder



▶ Show Elasticated Waist



▶ Pockets on Chest, Back and Legs

Technical Snapshot

Ref.	Material	GSM	Chest Pockets	Hip Pocket	Tools Pocket	Side Pocket	Reflective Tape
PWIFR 11011K	Inherent FR Fabric (93% Meta Aramid, 5% Para Aramid, 2% Anti-Static)	GSM 150±5%	✓	✓	✓	✓	✗
PWIFR 12011R	Inherent FR Fabric (93% Meta Aramid, 5% Para Aramid, 2% Anti-Static)	GSM 150±5%	✓	✓	✓	✓	✓

▶ CONFORMS TO CE 0161



EN ISO 13688:2013
 EN ISO 11612:2015 (Ratings: A1, A2, B1, C1, F1)
 EN 1149-5:2018
 IEC 61482-2:2018 (Rating: (4kA) APC=1)

*Note: There may be slight variations in the actual colour due to photos taken under different light conditions.

NEW

Ref. PWIFR 11021K



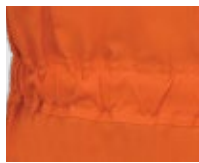
Ref. PWIFR 12021R



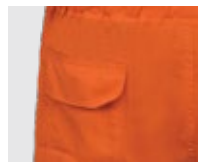
➤ Advance reflective tape design on the arms and legs.



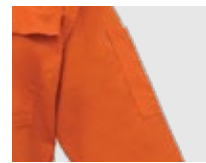
➤ Brass Zipper



➤ Elasticated Waist



➤ Back Pocket with FR Velcro Closure Flap



➤ Pen/Small Tool Holder

Technical Snapshot

Ref.	Material	GSM	Chest Pockets	Hip Pocket	Tools Pocket	Side Pocket	Reflective Tape
PWIFR 11021K	Inherent FR Fabric (93% Meta Aramid, 5% Para Aramid, 2% Anti-Static)	GSM 150±5%	✓	✓	✓	✓	✗
PWIFR 12021R	Inherent FR Fabric (93% Meta Aramid, 5% Para Aramid, 2% Anti-Static)	GSM 150±5%	✓	✓	✓	✓	✓

➤ **CONFORMS TO**
CE 0161

Colors available



EN ISO 13688:2013
EN ISO 11612:2015 (Ratings: A1, A2, B1, C1, F1)
EN 1149-5:2018
IEC 61482-2:2018 (Rating: (4kA) APC=1)

*Note: There may be slight variations in the actual colour due to photos taken under different light conditions.

➤ **GET YOUR WORKWEAR CUSTOMIZED AS PER YOUR NEED**

Customizing Workwear is an innovative way to identify yourself and portray a professional image. We have an in-house customization team to provide various options wherein you can choose or provide your specifications for coveralls, shirts, trousers, jackets, tunics, scrubs etc. The other things that can be added are your name, title, or a company logo which's your very own brand identity. Additionally, you can choose different types of logo customization options.

- Embroidery
- Screen Printing
- Heat Press
- Woven Labels and Rubberized Labels



Shirts



Trousers



Jackets



Tunics



Scrubs for Hospitals



Uniforms for
Hotel, Hospitality, Office wear

WASH CARE GUIDE

Wash the garment inside out and dry separately



Machine Wash at 30°C



Do Not Wring



No Chlorine Bleach



Do Not Tumble Dry



Max Iron Temp at 110°C



Dry Clean

SIZE CHART- BODY DIMENSIONS

Garment Size	BODY DIMENSIONS	
	A	B
	Body Height (cm)	Chest Girth (cm)
S	164-170	84-92
M	170-176	92-100
L	176-182	100-108
XL	182-188	108-116
XXL	188-194	116-124
XXXL	194-200	124-132

Note that these sizes relate to the body size of the wearer and not actual garment dimensions



NEW

KARAM introduces a range of Gloves that can be worn by the user under different working conditions. The recommendations are based on the different manufacturing styles of these Gloves, along with their different make-material and coatings, besides the different tests that these Gloves pass.

Latest 2016 EN Standards For Safety Gloves

KARAM Safety Gloves are tested and certified to the latest norms for mechanical resistance as per EN 388:2016.

EN 420: This standard defines the general requirements for Protective Gloves in terms of construction, fitness, purpose, safety, etc.

EN 388: This standard specifies the capability of the Gloves to protect the user against mechanical hazards, like abrasion, cut, tear, puncture, etc. Under this new standard EN 388:2016, KARAM Safety Gloves are tested for cut resistance through a more stringent TDM method, making them better in performance.

Performance level as per EN 388:2016					
Test	1	2	3	4	5
Abrasion resistance (No. of rubs)	100	500	2000	8000	-
Blade cut resistance (index)	1.2	2.5	5.0	10.0	20.0
Tear resistance (Newton)	10	25	50	75	-
Puncture resistance (Newton)	20	60	100	150	-

Performance level as per EN 388:2016						
Test	A	B	C	D	E	F
EN ISO Cut Resistance (Newton)	2	5	10	15	22	30
EN Impact Protection	Pass (P) or Fail (No Marking)					

Note : The letter X means that "not tested" or "not applicable"

EN388:2016



4 4 4 2 C X

	Rating
Impact Protection	P
Cut (TDM-100 Test)	A-F
Puncture	1-4
Tear	1-4
Cut (Coup Test)	1-5
Abrasion	1-4

Testing



TESTED & CERTIFIED



STRAIGHT BLADE CUT RESISTANCE TEST



TEAR AND PUNCTURE RESISTANCE TEST

NEW

▶ **SUPPORTED/MECHANICAL RESISTANT GLOVES**

PROKUT



Scan here for a virtual tour of the product

Prokut is the exclusive range of Gloves introduced by KARAM that protects the hands against mechanical hazards, like cut, abrasion, etc. This range by KARAM has the following unique features:

- Provides ergonomic protection for good grip, dexterity and comfort.
- Created for a broad range of general working applications such as handling and carrying in dry and wet conditions.
- Different coatings to suit various work conditions and applications.
- Tested to latest norm EN 388:2016 for abrasion resistance, cut, tear and puncture.
- Superior ergonomics with finest quality and finish.



EN 388: 2016



3131X

Ref. HS 01 (Orange Liner with Black Crinkle Latex)

▶ **IDEAL FOR USE**

In light to medium parts handling, construction material handling, maintenance work and warehousing.

▶ **DESCRIPTION**

- Has a high abrasion and tear resistance due to its more dense construction.
- Made of unique orange and black combination for better aesthetics.
- The crinkle latex coating provides an excellent grip and good mechanical performance for protection and durability.

▶ **CERTIFIED TO**

EN 388:2016

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
3	1	3	1	X



EN 388:2016



EN 388: 2016



3131X

Ref. HS 11 (White Liner with Orange Crinkle Latex)

▶ **IDEAL FOR USE**

In light to medium parts handling, vehicle maintenance, general maintenance work, handling of slippery plastics, tiles and ceramics.

▶ **DESCRIPTION**

Comes with more than 70% of the back of the hand area dipped in protective coating, including fully coated thumb, hence offers high level of protection.

▶ **CERTIFIED TO**

EN 388:2016

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
3	1	3	1	X



EN 388:2016



EN 388:
2016
 3131X

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
3	1	3	1	X

Ref. HS 21 (White Liner with White PU Coating)

➤ **IDEAL FOR USE**

In small parts assembly such as bearings, springs etc., assembly of electrical components, microprocessor handling, medicine manufacturing, automotive industry and OEM manufacturers.

➤ **DESCRIPTION**

- Offers excellent grip, dexterity along with a comfortable fit.
- Low lint Gloves as its made from 100% polyester yarn.

➤ **CERTIFIED TO**

EN 388:2016



EN 388:2016



EN 388:
2016
 3131X

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
3	1	3	1	X

Ref. HS 22 (Black Liner with Black PU Coating)

➤ **IDEAL FOR USE**

In assembly of electrical components, microprocessor handling, medicine and cosmetics preparation, automotive industry and OEM manufacturers.

➤ **DESCRIPTION**

- Offers excellent grip, dexterity along with a comfortable fit.
- Low lint Gloves as its made from 100% polyester yarn.

➤ **CERTIFIED TO**

EN 388:2016



EN 388:2016



EN 388:
2016
 4121X

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
4	1	2	1	X

Ref. HS 31 (White Liner with Grey Nitrile Coating)

➤ **IDEAL FOR USE**

In small parts assembly such as bearings, springs etc. assembly of electrical components, minor maintenance tasks and warehousing.

➤ **DESCRIPTION**

Low lint Gloves as its made from 100% polyester yarn.

➤ **CERTIFIED TO**

EN 388:2016



EN 388:2016

NEW



EN 388:
2016
 4243B

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
4	2	4	3	B

Ref. HS 41 (HPPE Liner with Grey PU Coating)

➤ **IDEAL FOR USE**

In handling sharp objects, good for engineering, steel and automotive industry, handling of glass and metal sheets, and assembly tasks that require cut protection.

➤ **DESCRIPTION**

- Offers excellent protection to the hands while working with sharper and provides greater force in harsher environments because it passes the stringent cut resistance test as per the new standard.
- Provides protection against thermal risks (heat and/or fire) as the glove passes contact heat test of EN 407:2020 clause no. 4.5.3
- The unique HPPE nylon spandex blended fiber of this Glove offers excellent fit, better dexterity and high levels of elasticity.

➤ **CERTIFIED TO**

EN 388:2016, and Passes contact heat test as per EN 407:2020



EN 388:2016

NEW



EN 388:
2016
 4443C

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
4	4	4	3	C

Ref. HS 51 (HPPE Liner with Black PU Coating)

➤ **IDEAL FOR USE**

In metal fabrication, steel and automotive industry, handling of glass and metal sheets, ceramic industry, aerospace and transportation.

➤ **DESCRIPTION**

- This Glove is constructed of unique high cut resistant fiber, which offers strong protection with the highest level of hand protection against sharp objects like glass, metal sheets etc.
- Provides protection against thermal risks (heat and/or fire) as the glove passes contact heat test of EN 407:2020 clause no. 4.5.3

➤ **CERTIFIED TO**

EN 388:2016, and Passes contact heat test as per EN 407:2020



EN 388:2016

NEW



Ref. HS 61 (HPPE Liner with Blue Latex Coating)

► IDEAL FOR USE

In handling sharp objects, good for engineering, steel and automotive industry, handling of glass and metal sheets and in assembly tasks that require cut protection.

► DESCRIPTION

- It offers the highest protection to the hands while working with sharper objects and provides greater force in harsher environments because it passes the stringent cut resistance test as per the new standard.
- The unique HPPE blended fiber of this glove offers excellent fit, better dexterity and high levels of elasticity
- Has Unique Cross pattern Latex coating for excellent grip.
- Provides protection against thermal risks (heat and/or fire) as the glove passes contact heat test of EN 407:2020 clause no. 4.5.3

► CERTIFIED TO

EN 388:2016, and Passes contact heat test as per EN 407:2020

Abrasion Resistance	Blade Cut Resistance	Tear Resistance	Puncture Resistance	TDM Resistance
4	5	4	3	D



EN 388:2016

Technical Snapshot

Ref.	Composition				Cuff Style	Thickness	Length	Sizes
	Coating Material	Coating Color	Liner Material	Grip				
HS 01	Latex	Black	Polyester	Crinkle	Straight with beaded overlock thread and white elastic in the cuff area.	13 gauge	S(230mm), M(240mm), LG(250mm), XL(260mm) (±3%)	M, LG, XL
HS 11	Latex	Orange	Polycotton	Crinkle Palm Coated with back ¾ Dip	Straight with beaded overlock thread and white elastic in the cuff area.	10 gauge	S(230mm), M(240mm), LG(250mm) (±3%)	M, LG, XL
HS 21	Polyurethane(PU)	White	Polyester	Smooth palm dipped	Straight with beaded overlock thread and grey elastic in the cuff area.	13 gauge	S(230mm), M(240mm), LG(250mm), XL(260mm) (±3%)	M, LG, XL
HS 22	Polyurethane(PU)	Black	Polyester	Smooth palm dipped	Straight with beaded overlock thread and yellow elastic in the cuff area.	13 gauge	S(230mm), M(240mm), LG(250mm), XL(260mm) (±3%)	M, LG, XL
HS 31	Nitrile	Grey	Polyester	Smooth palm dipped	Straight with beaded overlock thread and grey elastic in the cuff area.	13 gauge	S(230mm), M(240mm), LG(250mm), XL(260mm) (±3%)	M, LG, XL
HS 41	Polyurethane(PU)	Grey	HPPE	Smooth palm dipped	Straight with overlock thread beaded cuff area.	13 gauge	S(230mm), M(240mm), LG(250mm), XL(260mm) (±3%)	M, LG, XL
HS 51	Polyurethane(PU)	Black	HPPE	Smooth palm dipped	Straight with overlock thread beaded cuff area.	13 gauge	S(230mm), M(240mm), LG(250mm), XL(260mm) (±3%)	M, LG, XL
HS 61	Embossed Latex	Blue	HPPE	Textured palm dipped	Straight with overlock thread beaded cuff area.	13 gauge	S(230mm), M(240mm), LG(250mm), XL(260mm) (±3%)	M, LG, XL

FOOT PROTECTION



KARAM offers a wide range of Safety Footwear that is stylish, robust and provides the complete Foot Protection. The range is duly certified with the highest standards of EN, IS and DGMS.



Scan here for a virtual tour of the product

Standards at a Glance

The Safety Footwear that is expected to comply with the norm is marked with the letter “S” (Safety) followed by the letter “B” (Basic) or numbers showing the category it belongs to.

EN ISO 20345:2011

Category SB(Basic Safety): Involves the following requirements:

Steel Toe, 200 Joules

SB- Basic Characteristics

S1- Has SB Characteristics supplemented with the following:

- Antistatic Footwear (A)
- Energy Absorption in the heel region (E)
- Closed Seat Region
- Resistance to fuel Oil (FO)

S2- Has S1 Characteristics supplemented with the following:

- Water Penetration and Water Absorption Resistant Upper(WRU)

S3- Has S2 Characteristics supplemented with the following:

- Anti penetration midsole (P)
- Cleated outsole

Additional Requirements of Safety Shoe as per IS & EN Standard

Additional Requirements and Safety Standards (EN 345)	SB	S1	S2	S3
Antistatic Footwear	-			
Energy Absorption in the heel region	-			
Resistance to Fuel Oil	-			
Water Penetration & Water Absorption Upper	-	-		
Penetration Resistance (Steel Midsole)	-	-	-	
Cold Insulation	-	-	-	-
Heat Insulation	-	-	-	-
Conductive Footwear	-	-	-	-

KARAM Safety Footwear: GRIPP Series conforms to ISI and CE standards and provide SB, S1, S1P, S2, S3 category of Foot Safety.

Protection Level of KARAM Safety Footwear: S1, P, CI, SRC & S2



SHOE FLEXING RESISTANCE TEST



SOLE FLEXING RESISTANCE TEST

← Testing
↓

TESTED & CERTIFIED



SOLE ABRASION RESISTANCE TEST



ENERGY ABSORPTION OF SEAT REGION TEST

KARAM offers different models of Shoes incorporated with Steel Toe or with Composite Toe.

KARAM Steel-Toe:

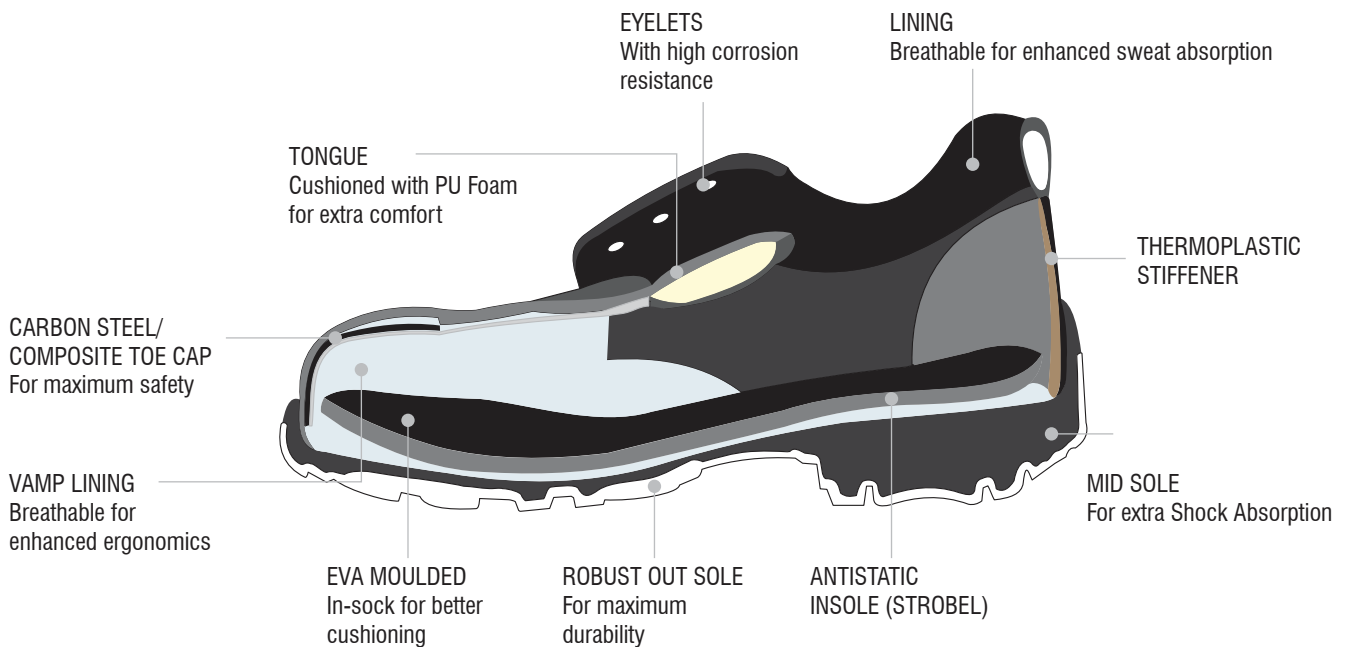
- The Steel Toe caps used in KARAM Shoes are manufactured from Carbon Steel.
- Have a surface finish to make them highly corrosion resistant.
- Tested and certified as per **EN 12568:2010**

KARAM Composite-Toe:

- KARAM Shoe models come incorporated with the special Composite Toe, which is made of high strength Polymer.
- Extremely light in weight.
- Tested and certified as per **EN 12568:2010**



KARAM SAFETY FOOTWEAR



NEW

FLYTEX[®]
SAFETY FOOTWEAR

KARAM Introduces a range of Flytex Safety Footwear equipped with all the significant features to ensure safety against extreme odds and to facilitate comfortable walk and work.

The range is a perfect blend of Breathability, Comfort, Safety and Style.

Smart, Stylish
and Fashionable

100%
Metal Free Shoe

Highly
Breathable



Strongest Sole
Bonding



NEW



Ref: FS 201

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

Smart, stylish and fashionable safety shoe.

➤ DISTINGUISHED FEATURES

- Highly breathable.
- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Equipped with strongest sole bonding.



IS 15298(Part-02):2016

NEW



Ref: FS 202

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

Safety Shoe with a perfect blend of breathability, comfort, safety and style.

➤ DISTINGUISHED FEATURES

- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Highly breathable.
- Equipped with strongest sole bonding.



IS 15298(Part-02):2016

NEW



Ref: FS 203

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

The lightest, flexible and comfortable footwear.

➤ DISTINGUISHED FEATURES

- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Highly breathable.
- Equipped with strongest sole bonding.



IS 15298(Part-02):2016

* Actual color may vary with the picture of the shoe

NEW



Ref: FS 204

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

Ultra-light weight and flexible sporty shoe.

➤ DISTINGUISHED FEATURES

- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Highly breathable.
- Equipped with strongest sole bonding.



IS 15298(Part-02):2016



Technical Snapshot				
Ref.	FS 201	FS 202	FS 203	FS 204
Upper	Flyknit fabric upper with white and dark grey color combination	Flyknit fabric upper with black and red color print	Flyknit fabric upper with black and blue color print	Flyknit fabric upper with black and blue color print
Lining	Breathable soft black netlon fabric lining	Breathable soft fabric lining	Breathable soft fabric lining	Breathable soft fabric lining
Vamp Lining	Non-woven fabric	Non-woven fabric	Non-woven fabric	Non-woven fabric
In-sock	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning
Toe	Composite toe cap	Composite toe cap	Composite toe cap	Composite toe cap
Sole	Single density PU sole	Single density PU sole	Single density PU sole	Single density PU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Conforms to	IS 15298(Part-02):2016	IS 15298(Part-02):2016	IS 15298(Part-02):2016	IS 15298(Part-02):2016
Protection Level	S1, CI, SRC	S1, CI, SRC	S1, CI, SRC	S1, CI, SRC
Category	Design A	Design A	Design A	Design A
Size	3-12	3-12	3-12	3-12

* Actual color may vary with the picture of the shoe

NEW



IS 15298(Part-02):2016

Ref: FS 208

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

Sporty shoe for comfortable walk and work.

➤ DISTINGUISHED FEATURES

- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Highly breathable.
- Equipped with strongest sole bonding.

NEW



IS 15298(Part-02):2016

Ref: FS 210

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

Smart, stylish and fashionable safety shoe.

➤ DISTINGUISHED FEATURES

- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Highly breathable.
- Equipped with strongest sole bonding.

NEW



IS 15298(Part-02):2016

Ref: FS 213

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

Breathable and comfortable safety shoe with a sporty look.

➤ DISTINGUISHED FEATURES

- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Highly breathable.
- Equipped with strongest sole bonding.

* Actual color may vary with the picture of the shoe

NEW



Ref: FS 215

➤ IDEAL FOR USE

In Telecommunication, Pharmaceutical, Automotive, Logistics Aviation, Transportation, General Industry, Manufacturing, Maintenance.

➤ DESCRIPTION

Smart, stylish and breathable safety shoe with a sporty look.

➤ DISTINGUISHED FEATURES

- Ultra-light weight and flexible.
- Extremely comfortable.
- Provides protection against electrical hazards.
- 100% metal-free shoe.
- Highly breathable.
- Equipped with strongest sole bonding.



IS 15298(Part-02):2016



Technical Snapshot				
Ref.	FS 208	FS 210	FS 213	FS 215
Upper	Flyknit fabric upper with black and white color print	Flyknit fabric upper with black and orange color print	Flyknit fabric upper with grey and red color print	Flyknit fabric upper with black and red color print
Lining	Breathable soft fabric lining	Breathable soft fabric lining	Breathable soft fabric lining	Breathable soft fabric lining
Vamp Lining	Non-woven fabric	Non-woven fabric	Non-woven fabric	Non-woven fabric
In-sock	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning	Soft moulded In-socks laminated with soft black netlon fabric for better cushioning
Toe	Composite toe cap	Composite toe cap	Composite toe cap	Composite toe cap
Sole	Single density PU sole	Single density PU sole	Single density PU sole	Single density PU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Conforms to	IS 15298(Part-02):2016	IS 15298(Part-02):2016	IS 15298(Part-02):2016	IS 15298(Part-02):2016
Protection Level	S1, CI, SRC	S1, CI, SRC	S1, CI, SRC	S1, CI, SRC
Category	Design A	Design A	Design A	Design A
Size	3-12	3-12	3-12	3-12

* Actual color may vary with the picture of the shoe

NEW

ABAWRF RANGE

KARAM introduces ABAWRF range of Shoes specially designed with additional feature of being water-repellent; hence, providing extreme comfort in long working hours.

Anti-static

Increased
Air Circulation

Anti-Bacterial

Water-Resistant
Upper

Composite
Toe





ABAWRF PREMIUM SHOE

Ref. FS 13

- **IDEAL FOR USE**
In food and pharmaceutical industry.
- **GENERAL FEATURE**
Water repellent slip-on Shoe.

IS 15298(Part-02):2016 EN ISO 20345:2011



ABAWRF EXECUTIVE SHOE

Ref. FS 14

- **IDEAL FOR USE**
In general, telecom and transmission industry.
- **GENERAL FEATURE**
Water repellent derby style low ankle protection Shoe.

IS 15298(Part-02):2016 EN ISO 20345:2011



ABAWRF REFLECTIVE SHOE

Ref. FS 15

- **IDEAL FOR USE**
In oil and gas, construction and general industry.
- **GENERAL FEATURE**
 - Water repellent sporty style low ankle protection Shoe.
 - Reflective Tapes on Shoe for higher visibility in the dark.

IS 15298(Part-02):2016 EN ISO 20345:2011

* Actual color may vary with the picture of the shoe



ABAWRF HIGH ANKLE SHOE

Ref. FS 25

► IDEAL FOR USE

In heavy metal, glass and general industry.

► GENERAL FEATURE

Water repellent derby designed high ankle protection Shoe.



IS 15298(Part-02):2016

EN ISO 20345:2011

Technical Snapshot

Ref.	FS 13	FS 14	FS 15	FS 25
Upper	Micro fiber din leather	Micro fiber din leather	Micro fiber din leather	Micro fiber din leather
Lining	Grey cambrelle	Netlon padded with foam	Netlon padded with foam	Netlon padded with foam
Vamp Lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining
In-sock	Moulded In-sock	Moulded In-sock	Moulded In-sock	Moulded in-sock
Toe	Composite	Composite	Composite	Composite
Sole	Single density PU sole	Single density PU sole	Double density PU sole	Single density PU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016
Protection Level	S2	S2	S2	S2
Category	Design A	Design A	Design A	Design B
Size	3-13	3-13	3-13	3-13

* Actual color may vary with the picture of the shoe

SAFETY SHOES WITH DOUBLE DENSITY PU/PU SOLE

KARAM offers a wide range of shoes having double density PU/PU soles which are injection moulded onto the Shoe. These double density PU/PU outsoles provide ultimate shock absorption and durability, while remaining light in weight and flexible.

Extra Corrosion
Resistance Eyelets

Ultimate Shock
Absorption

Highly
Durable

Light in
Weight

Carbon Steel Toe Cap
for Maximum Safety





Ref. FS 01

➤ **IDEAL FOR USE**

In general industry set up.

➤ **DESCRIPTION**

Smart deluxe executive shoe for complete foot safety.

➤ **DISTINGUISHED FEATURES**

- Red stitching with bonded thread.
- Excellent grip, comfort and slip resistance.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 21

➤ **IDEAL FOR USE**

In telecom and general industry set up.

➤ **DESCRIPTION**

This model is a smart lace up shoe providing complete protection to the ankle.

➤ **DISTINGUISHED FEATURES**

- Has bellow tongue which prevents spillage of water and liquids inside the Shoe.
- Metallic D-ring and flat laces for better knotting grip.
- Red stitching with bonded thread.
- Excellent grip, comfort and slip resistance.



IS 15298(Part-02):2016 EN ISO 20345:2011

* Actual color may vary with the picture of the shoe



Ref. FS 22

➤ IDEAL FOR USE

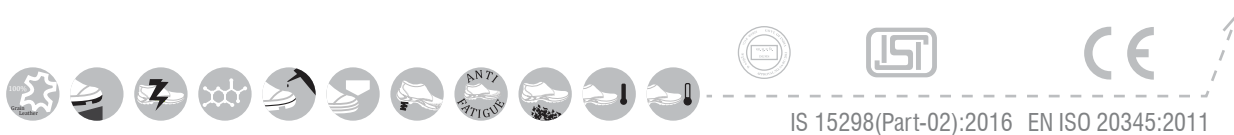
In pharmaceutical and general industry set up.

➤ DESCRIPTION

An ankle height quick-release boot. Extremely easy to remove in case of injury to the foot.

➤ DISTINGUISHED FEATURES

- Equipped with a unique special keeper for releasing the boot in case of injury to the foot.
- Excellent grip, comfort and slip resistance.



Ref. FS 51

➤ IDEAL FOR USE

In oil, gas and petroleum industry.

➤ DESCRIPTION

High ankle boot integrated with fire retardant threads specific for hot working conditions.

➤ DISTINGUISHED FEATURES

- High ankle design and fire-retardant thread provides extra safety to the foot while working on the hot surfaces up to 120 degree Celsius.
- Excellent grip, comfort and slip resistance.



* Actual color may vary with the picture of the shoe



Ref. FS 61

➤ **IDEAL FOR USE**

In pharmaceutical and general industry set up.

➤ **DESCRIPTION**

Smart deluxe executive shoe for complete foot safety.

➤ **DISTINGUISHED FEATURES**

- Metallic hexagonal eyelets.
- Round brown laces.
- Brown leather upper and beige lining.
- The breathable drylex lining, 3D fabric (being used as a quarter lining in the Shoes) prevents moisture and perspiration, and provides high sweat absorption property for a dry feel. It is also highly resistant to abrasion.



IS 15298(Part-02):2016 EN ISO 20345:2011

Technical Snapshot

Ref.	FS 01	FS 21	FS 22	FS 51	FS 61
Upper	Full grain leather	Full grain leather	Full grain leather topline with codura	Full grain buff waxy din leather	Buff brown grain leather
Lining	Netlon padded with foam	Netlon padded with foam	Special breathable drylex lining, 3D fabric	Unlined shoe	Special breathable drylex lining, 3D fabric
Vamp Lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining	Comfortable, breathable soft fleece lining
In-sock	5mm eva laminated with netlon	5mm eva laminated with netlon	5mm eva laminated with netlon	5mm eva laminated with netlon	Moulded in-sock
Toe	Steel	Steel	Steel	Steel	Steel
Sole	Double density PU/ PU sole	Double density PU/ PU sole	Double density PU/ PU sole	Double density PU/ PU sole	Double density PU/ PU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	EN ISO 20345:2011 IS 15298 (Part-02):2016 DGMS	EN ISO 20345:2011 IS 15298 (Part-02):2016 DGMS	EN ISO 20345:2011 IS 15298 (Part-02):2016 DGMS	EN ISO 20345:2011 IS 15298 (Part-02):2016	EN ISO 20345:2011 IS 15298 (Part-02):2016
Protection Level	S1	S1	S1	S1	S1
Category	Design A	Design B	Design B	Design C	Design A
Size	3-13	3-13	3-13	3-13	3-13

* Actual color may vary with the picture of the shoe

SAFETY SHOES WITH DOUBLE DENSITY PU/TPU SOLE

KARAM offers a wide range of Shoes having Double Density PU/TPU which are injection moulded onto the Shoe. These Double Density PU/TPU Outsoles offer excellent abrasion resistance, slip resistance, extra comfort and flexibility.

Highly Flexible
and Comfortable

Slip Resistance

Excellent
Abrasion
Resistance



Stylish and Fashionable
Look





Ref. FS 62

➤ **IDEAL FOR USE**

In telecom and general industry set up.

➤ **DESCRIPTION**

Safety shoe equipped with all the features of comfort, robust looks and highest level of safety.

➤ **DISTINGUISHED FEATURES**

- Reflective tapes on Shoe for high visibility in the dark.
- Equipped with non-metallic eyelets and flat laces for better knotting grip.
- Codura fabric enhances breathability, makes shoe lighter in weight. It is more durable and flexible.
- Foam padded tongue enhance fit and comfort.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 63

➤ **IDEAL FOR USE**

In telecom and general industry set up.

➤ **DESCRIPTION**

Safety shoe equipped with all the features of comfort, robust looks and highest level of safety.

➤ **DISTINGUISHED FEATURES**

- Extended top line for wider foot coverage.
- Equipped with reflective tapes on Shoe for high visibility in the dark.
- Codura fabric enhances breathability, makes Shoe lighter in weight.
- Is more durable and flexible.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 64

► IDEAL FOR USE

In pharmaceutical and general industry set up.

► DESCRIPTION

Premium executive Shoe with soft suede leather providing the finest features in safety and comfort.

► DISTINGUISHED FEATURES

- Equipped with perforated quarters for extended air flow to reduce sweat and odour.
- Light weight metallic strong D-ring eyelets.
- Codura fabric enhances breathability, makes shoe lighter in weight.
- Durable and flexible.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 65

► IDEAL FOR USE

In transmission and general industry set up.

► DESCRIPTION

Uniquely designed ankle protection Shoe.

► DISTINGUISHED FEATURES

- Has composite toe.
- Equipped with textile loop eyelets with high visibility reflective tape.
- Non-Metallic Shoe- Ideal for transmission industry, pharmaceutical and electronic industry.
- Extremely light in weight.
- Foam padding in bellow tongue to enhance fit and comfort.



IS 15298(Part-02):2016 EN ISO 20345:2011

Technical Snapshot				
Ref.	FS 62	FS 63	FS 64	FS 65
Upper	Buff black crazy horse leather and codura grey	Buff black crazy horse leather and codura black	Soft breathable suede grey leather	Buff brown crazy horse leather and codura brown
Lining	Breathable grey drylex lining, 3D fabric	Attractive orange spacer lining, 3D fabric	Attractive grey spacer lining, 3D fabric	Orange spacer lining, 3D fabric
Vamp Lining	Comfortable, breathable soft fleece lining	Comfortable, breathable soft fleece lining	Comfortable, breathable soft fleece lining	Highly abrasion resistant fabric lining
In-sock	Moulded in-sock	Moulded in-sock	Moulded in-sock	Moulded in-sock
Toe	Steel	Steel	Steel	Composite
Sole	Double density PU/TPU sole	Double density PU/TPU sole	Double density PU/TPU sole	Double density PU/TPU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016
Protection Level	S1	S1	S1	S1P
Category	Design A	Design A	Design A	Design B
Size	3-13	3-13	3-13	3-13

SAFETY SHOES WITH SINGLE DENSITY PU SOLE

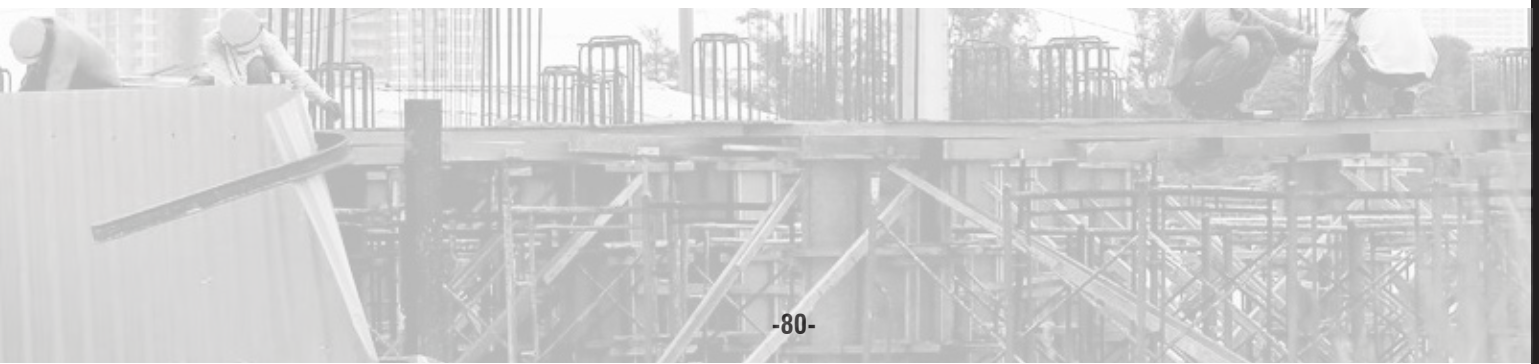
KARAM offers a wide range of Shoes having Single Density PU Sole which are injection moulded onto the Shoe. Single Density PU outsole imparts high level of energy absorption.

Extra Corrosion
Resistance Eyelets

Cleated Outsole for
firm Grip on uneven
ground and slippery
surfaces



Increased Energy
Absorption





Ref. FS 02

➤ **IDEAL FOR USE**

In telecom, electronic and general industry set up.

➤ **DESCRIPTION**

Deluxe workman's choice safety Shoe providing safety with comfort.

➤ **DISTINGUISHED FEATURES**

- Has smart grey stitching with bonded thread.
- Comes with excellent grip, comfort and slip resistance.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 04

➤ **IDEAL FOR USE**

In telecom, electronic and general industry set up.

➤ **DESCRIPTION**

New executive choice slip-on Shoe for the smart executive on the move.

➤ **DISTINGUISHED FEATURES**

- Easy slip-on design and cushioned top-line.
- Comes with excellent grip, comfort and slip resistance.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 05

➤ **IDEAL FOR USE**

In telecom, electronic and general industry set up.

➤ **DESCRIPTION**

Worker's safety Shoe providing safety with comfort.

➤ **DISTINGUISHED FEATURES**

Comes with excellent grip, comfort and slip resistance.



IS 15298(Part-02):2016 EN ISO 20345:2011

* Actual color may vary with the picture of the shoe

Technical Snapshot			
Ref.	FS 02	FS 04	FS 05
Upper	Full grain leather	Full grain leather	Full grain leather
Lining	Grey cambrelle lining	Netlon padded with foam	Black Cambrelle lining
Vamp Lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining
In-sock	5mm eva laminated with netlon	5mm eva laminated with netlon	5mm eva laminated with netlon
Toe	Steel	Steel	Steel
Sole	Single density PU sole	Single density PU sole	Single density PU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	EN ISO 20345:2011 IS 15298 (Part-02):2016 DGMS	EN ISO 20345:2011 IS 15298 (Part-02):2016 DGMS	EN ISO 20345:2011 IS 15298 (Part-02):2016
Protection Level	S1	S1	S1
Category	Design A	Design A	Design B
Size	3-13	3-13	3-13

NEW



Ref. FS 69

➤ **IDEAL FOR USE**

In telecom, pharmaceutical and general industry set up.

➤ **DESCRIPTION**

Smart, stylish and fashionable premium executive Shoe with soft suede leather providing the finest features in safety and comfort.

➤ **DISTINGUISHED FEATURES**

- Lightweight.
- Codura fabric enhances breathability, makes Shoe lighter in weight.
- Durable and flexible.



IS 15298(Part-02):2016



Ref. FS 71

➤ **IDEAL FOR USE**

In telecom, transmission, electronic and general industry set up.

➤ **DESCRIPTION**

Smart lace up, high end and light weight executive Shoe.

➤ **DISTINGUISHED FEATURES**

- Moccasin design having a broad area for extended comfort.
- Has light weight nail-guard and anti-perforation mid-sole to provide maximum safety, along with great flexibility to the foot.
- Comfortable fabric lining of the Shoes also makes it sweat and odour free.
- Available in options of 2 colours-black and chocolate brown.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 72

➤ **IDEAL FOR USE**

In telecom, transmission, pharmaceutical and general industry set up.

➤ **DESCRIPTION**

Attractive design light weight slip on Shoe.

➤ **DISTINGUISHED FEATURES**

- Moccasin design having broad area for extended comfort.
- Has light weight nail-guard and anti-perforation mid-sole to provide maximum safety, along with great flexibility to the foot.
- Comfortable fabric lining of the Shoes also makes it sweat and odour free.
- Available in options of 2 colours-black and chocolate brown.



IS 15298(Part-02):2016 EN ISO 20345:2011

* Actual color may vary with the picture of the shoe



Ref. FS 73

► IDEAL FOR USE

In telecom, transmission, pharmaceutical and general industry set up.

► DESCRIPTION

Zero metal slip on Shoe with padded top line for comfort.

► DISTINGUISHED FEATURES

- Slip on with padded top line for comfort.
- Design with broad toe area for extended comfort.
- Moulded in-sock for anti fatigue property.
- Has light weight nail-guard and anti-perforation mid-sole to provide maximum safety, along with great flexibility to the foot.
- Comfortable fabric lining of the Shoes also makes it sweat and odour free.
- Also available in black color in cow venus leather.



IS 15298(Part-02):2016 EN ISO 20345:2011

Technical Snapshot

Ref.	FS 69	FS 71	FS 72	FS 73
Upper	Buff grey suede leather and codura black	Buff waxy grain Din	Buff waxy grain Din	Buff waxy grain Din
Lining	Attractive orange spacer lining, 3D fabric	Black/grey fabric padded with soft foam	Black/grey fabric padded with soft foam	Leather lining
Vamp Lining	Highly abrasion resistant non woven fabric lining	Special fabric with foam support	Special fabric with foam support	Comfortable breathable soft fleece lining
In-sock	Moulded in-sock	Soft moulded in-sock	Soft moulded in-sock	Soft moulded in-sock
Toe	Steel	Composite	Composite	Composite
Sole	Single density PU sole	Single density PU sole	Single density PU sole	Single density PU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	Conforms to IS 15298 (Part-2):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016
Protection Level	S1	S1P	S1P	S1P
Category	Design A	Design A	Design A	Design A
Size	3-13	3-13	3-13	3-13

* Actual color may vary with the picture of the shoe



Ref. FS 150

➤ **IDEAL FOR USE**

In institutions.

➤ **DESCRIPTION**

Oxford dress Shoes specially designed for Institutional use.

➤ **DISTINGUISHED FEATURES**

- Has special corrosion resistant aluminium eyelets.
- Cleated Outsole for firm Grip on uneven ground and slippery surfaces.



IS 15298(Part-02):2016



Ref. FS 151

➤ **IDEAL FOR USE**

In paramilitary forces.

➤ **DESCRIPTION**

Jungle boot specially designed for paramilitary forces.

➤ **DISTINGUISHED FEATURES**

- Has special corrosion resistant aluminium eyelets.
- Comes with excellent grip, comfort, anti-slip and sweat absorbing properties.



IS 15298(Part-02):2016



Ref. FS 152

➤ **IDEAL FOR USE**

In paramilitary forces.

➤ **DESCRIPTION**

Ankle boot specially designed for paramilitary forces.

➤ **DISTINGUISHED FEATURES**

- Has special corrosion resistant aluminium eyelets.
- Jug-loop design for easy hanging.



IS 15298(Part-02):2016

* Actual color may vary with the picture of the shoe



Ref. FS 100

➤ **IDEAL FOR USE**

In construction, transmission and general industry set up.

➤ **DESCRIPTION**

Lace up smart, slim design Shoe for the woman on the go.

➤ **DISTINGUISHED FEATURES**

- Inbuilt anti-perforation nail guard insole.
- Padded tongue for enhanced comfort.
- Padded top line for comfort.



IS 15298(Part-02):2016 EN ISO 20345:2011



Ref. FS 101

➤ **IDEAL FOR USE**

In transmission and general industry set up.

➤ **DESCRIPTION**

Easy to wear ladies Safety Shoe with velcro fitment for women.

➤ **DISTINGUISHED FEATURES**

- Equipped with velcro fitment.
- Oil/acid resistant with anti-slip and sweat absorbing properties.



IS 15298(Part-02):2016 EN ISO 20345:2011

* Actual color may vary with the picture of the shoe


Technical Snapshot					
Ref.	FS 150	FS 151	FS 152	FS 100	FS 101
Upper	Buff corrected grain leather	Water repellent polyester viscous fabric with grain leather and hard toe	Buff grain leather	Buff waxy black grain leather	Buff grain leather
Lining	Leather lining	Cambrelle lining with foam padding	Cambrelle lining	Soft pink breathable spacer lining, 3d fabric	Netlon padded with foam
Vamp Lining	Highly abrasion resistant fabric lining	Soft cambrelle lining with foam padding	Highly abrasion resistant fabric lining	Comfortable, breathable soft fleece lining	Highly abrasion resistant fabric lining
In-sock	5mm eva laminated with netlon	Soft moulded in-sock	Soft moulded in-sock	Soft moulded in-sock	Soft moulded in-sock
Toe	Steel	Hard toe	Hard toe	Composite	Composite
Sole	Single density PU sole	Single density PU sole	Single density PU sole	Single density PU sole	Single density PU sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	Conforms to IS 15298 (Part-02):2016	Conforms to IS 15298 (Part-02):2016	Conforms to IS 15298 (Part-02):2016	EN ISO 20345:2011 IS 15298 (Part-02):2016	EN ISO 20345:2011 IS 15298 (Part-02):2016
Protection Level	S1	NA	NA	S1P	S1
Category	Design A	Design B	Design B	Design A	Design A
Size	3-13	3-13	3-13	3-13	3-13

NEW

SAFETY FOOTWEAR WITH PU NITRILE SOLE

KARAM offers new range of Safety Footwear with Double Density PU Nitrile sole for utmost comfort and safety. These Outsoles offer Excellent Grip, Comfort, Flexibility and Slip Resistance.


Lightweight


Sustains Surface Resistance to hot contact upto 300° C for one minute




Flexible


Offers Good Slip, Tear, Oil and Abrasion resistance.





Ref. FS 01RO

➤ **IDEAL FOR USE**

In Automotive, Aeronautical, PPE, Petroleum, Chemical, Power Industry and general industry set up.

➤ **DESCRIPTION**

Smart deluxe executive Shoe for complete foot safety.

➤ **DISTINGUISHED FEATURES**

- Sustains surface heat resistance upto 300° C for one minute.
- Has smart 6 ply contrast red color stitching with bonded thread.
- Aluminum passivated eyelets.
- Flexible anti-puncture Insole protects the foot from sharp objects like nails, etc.
- The use of anti-static thread for stitching on Insock keeps the electro-static charges grounded.
- Also available with metal-free toe cap which fits perfectly without pressure points. This delivers increased wearer comfort while kneeling and banging against obstacles.



IS 15298
(Part-02):2016

EN ISO
20345:2011

Ref. FS 05RO

➤ **IDEAL FOR USE**

In Automotive, Aeronautical, PPE, Petroleum, Chemical, Power Industry and general industry set up.

➤ **DESCRIPTION**

Worker's safety shoe providing safety with comfort.

➤ **DISTINGUISHED FEATURES**

- Sustains surface heat resistance upto 300° C for one minute.
- Has smart 6 Ply Black color stitching with bonded thread.
- Aluminum passivated eyelets.
- Flexible Anti-puncture Insole protects the foot from sharp objects like nails, etc.
- The use of anti-static thread for stitching on Insock keeps the electro-static charges grounded.
- Also available with metal-free toe cap which fits perfectly without pressure points. This delivers increased wearer comfort while kneeling and banging against obstacles.



IS 15298
(Part-02):2016

EN ISO
20345:2011

* Actual color may vary with the picture of the shoe



Ref. FS 21R0

► IDEAL FOR USE

In Automotive, Aeronautical, PPE, Petroleum, Chemical, Power Industry and general industry set up.

► DESCRIPTION

This model is a smart lace-up shoe providing complete protection to the ankle.

► DISTINGUISHED FEATURES

- Sustains surface heat resistance upto 300° C for one minute.
- Has smart 6 Ply contrast red color stitching with bonded thread.
- Metallic D-ring and flat laces for better knotting grip.
- Flexible anti-puncture Insole protects the foot from sharp objects like nails, etc.
- The Insock shape cover and supports the arch region of foot for more comfort.
- Has bellow tongue which prevents spillage of water and liquids inside the shoe.
- The use of anti-static thread for stitching on Insock keeps the electro-static charges grounded.
- Also available with metal-free toe cap which fits perfectly without pressure points. This delivers increased wearer comfort while kneeling and banging against obstacles.



IS 15298
(Part-02):2016

EN ISO
20345:2011

Technical Snapshot

Ref.	FS 01R0	FS 05R0	FS 21R0
Upper	Buff black grain tango print leather	Buff black grain apollo print leather	Buff black grain apollo print leather
Lining	Soft black netlon lining	Non-woven cambrelle lining	Netlon textile black lining
Vamp Lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining	Highly abrasion resistant non woven fabric lining
In-sock	5mm EVA laminated with netlon fabric	5mm EVA laminated with netlon fabric	5 mm EVA laminated with netlon fabric
Toe	Steel / Composite	Steel / Composite	Steel / Composite
Sole	PU Nitrile Sole	PU Nitrile Sole	PU Nitrile Sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	EN ISO 20345:2011 IS 15298(Part-02):2016 DGMS	EN ISO 20345:2011 IS 15298(Part-02):2016 DGMS	EN ISO 20345:2011 IS 15298(Part-02):2016 DGMS
Protection Level	S1, CI, HI, SRC, HRO	S1, CI, HI, SRC, HRO	S1, CI, HI, SRC, HRO
Category	Design A	Design A	Design B
Size	3-13	3-13	3-13

* Actual color may vary with the picture of the shoe



Ref. FS 65R0

➤ **IDEAL FOR USE**

In Automotive, Aeronautical, PPE, Petroleum, Chemical, Power Industry and general industry set up.

➤ **DESCRIPTION**

Uniquely designed ankle protection shoe.

➤ **DISTINGUISHED FEATURES**

- Sustains surface heat resistance upto 300° C for one minute.
- Has smart 6 Ply brown color stitching with bonded thread.
- Equipped with textile loop eyelets.
- Flexible anti-puncture Insole to protect the foot from sharp objects like nails, etc.
- The Insock shape covers and supports the arch region of the foot for more comfort.
- Foam padding in bellow tongue to enhance fit and comfort.
- The use of anti-static thread for stitching on Insock keeps the electro-static charges grounded.
- Also available with metal-free toe cap which fits perfectly without pressure points. This delivers increased wearer comfort while kneeling and banging against obstacles.



IS 15298
(Part-02):2016



EN ISO
20345:2011



Ref. FS 111R0

➤ **IDEAL FOR USE**

In Automotive, Aeronautical, PPE, Petroleum, Chemical, Power Industry and general industry set up.

➤ **DESCRIPTION**

Smart, stylish and fashionable safety shoe equipped with all the features of comfort, robust looks and highest level of safety.

➤ **DISTINGUISHED FEATURES**

- Sustains surface heat resistance upto 300° C for one minute.
- Has attractive red stitching with bonded thread.
- Metallic D-ring and flat laces for better knotting grip.
- Flexible anti-puncture Insole to protect the foot from sharp objects like nails, etc.
- The Insock shape cover and supports the arch region of foot for more comfort.
- The use of anti-static thread for stitching on Insock keeps the electro-static charges grounded.
- Can also be offered with metal-free toe cap which fits perfectly without pressure points. This delivers increased wearer comfort while kneeling and banging against obstacles.



IS 15298
(Part-02):2016



EN ISO
20345:2011

* Actual color may vary with the picture of the shoe



Ref. FS 112RO

➤ **IDEAL FOR USE**

In Automotive, Aeronautical, PPE, Petroleum, Chemical, Power Industry and general industry set up.

➤ **DESCRIPTION**

Rugged, light weight shoe with durability and a comfortable fit.

➤ **DISTINGUISHED FEATURES**

- Sustains surface heat resistance upto 300° C for one minute.
- Has smart 6 Ply grey color stitching with bonded thread.
- Aluminum passivated eyelets.
- Flexible anti-puncture Insole to protect the foot from sharp objects like nails, etc.
- The Insock shape cover and supports the arch region of foot for more comfort.
- The use of anti-static thread for stitching on Insock keeps the electro-static charges grounded.
- Can also be offered with metal-free toe cap which fits perfectly without pressure points. This delivers increased wearer comfort while kneeling and banging against obstacles.



IS 15298
(Part-02):2016

EN ISO
20345:2011



Ref. FS 113RO

➤ **IDEAL FOR USE**

In Automotive, Aeronautical, PPE, Petroleum, Chemical, Power Industry and general industry set up.

➤ **DESCRIPTION**

Rugged, light weight shoe with durability and a comfortable fit.

➤ **DISTINGUISHED FEATURES**

- Sustains surface heat resistance upto 300° C for one minute.
- Has smart 6 Ply grey color stitching with bonded thread.
- Aluminum passivated eyelets.
- Flexible anti-puncture Insole to protect the foot from sharp objects like nails, etc.
- The Insock shape cover and supports the arch region of foot for more comfort.
- The use of anti-static thread for stitching on Insock keeps the electro-static charges grounded.
- Can also be offered with metal-free toe cap which fits perfectly without pressure points. This delivers increased wearer comfort while kneeling and banging against obstacles.



IS 15298
(Part-02):2016

EN ISO
20345:2011

* Actual color may vary with the picture of the shoe

Technical Snapshot				
Ref.	FS 65RO	FS 111RO	FS 112RO	FS 113RO
Upper	Buff brown crazy horse grain leather	Buff black grain barton print leather and combination with buff black CG grain leather	Buff black grain apollo print leather	Buff black grain apollo print leather
Lining	Breathable spacer orange lining	Breathable spacer grey lining	Breathable spacer grey lining	Soft spacer grey coloured fabric
Vamp Lining	Highly abrasion resistant fabric lining	Non-woven fabric	Non-woven fabric	Non-woven fabric
In-sock	Moulded Insock and laminated with black netlon	Moulded Insock and laminated with black netlon	Moulded In-sock and laminated with black netlon	Moulded In-sock and laminated with black netlon
Toe	Steel / Composite	Steel / Composite	Steel / Composite	Steel / Composite
Sole	PU Nitrile Sole	PU Nitrile Sole	PU Nitrile Sole	PU Nitrile Sole
Outsole	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats	Cleated outsole with wider cleats
Certified to	IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016	EN ISO 20345:2011 IS 15298(Part-02):2016
Protection Level	S1, CI, HI, SRC, HRO	S1, CI, HI, SRC, HRO	S1, CI, HI, SRC, HRO	S1, CI, HI, SRC, HRO
Category	Design B	Design A	Design A	Design A
Size	3-13	3-13	3-13	3-13

SYMBOLS USED FOR SAFETY SHOES



100% Grain Leather



Slip-Resistant Tread Pattern



Antistatic Shoe



Summer Shoe



Anti-bacterial Property



Oil and Fuel Resistant Sole



ESD



Toe Protection



Penetration Protection



Shock Absorbant Heel



Ankle Protection



Anti-Fatigue



Heat Resistance



Heat Insulation



Cold Insulation



300°C Heat Resistance



Slip Resistant



Light Weight



Flyknit Fabric



Composite Toe



Scan here for a virtual tour of the product

FULL BODY HARNESSSES



KARAM offers a comprehensive range of Full Body Harnesses to suit a vast range of applications and situations. Equipped with the finest ergonomics and technically sound features, KARAM Full Body Harnesses are the best choice for comfortable and safe usage for work at height.



Scan here for a virtual tour of the product

Some Important Features Of A Safety Harness

ATTACHMENT POINTS ON THE HARNESS

The Labels marked as "A" denote the attachment points on the Harness. In certain areas, the labels are marked "A/2" meaning that two similar points held together shall constitute a single attachment point.



MATERIAL OF WEBBING

All KARAM Harnesses are made of Dope-Dyed high tenacity Polyester yarn, imparting increased resistance to UV colour degradation.

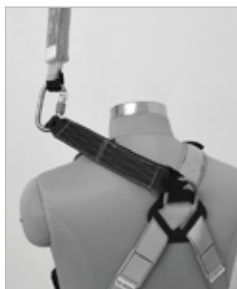
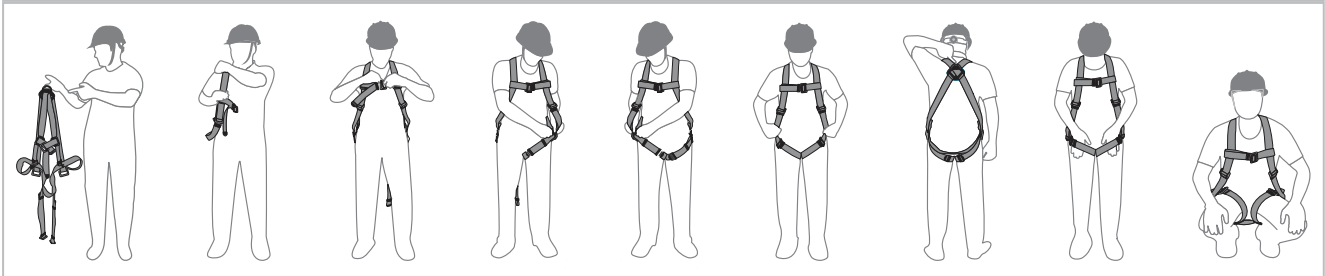


ABOUT FALL INDICATOR

The Tell-Tale Indicator is a small label stitched to the back side of the shoulder strap and it flies out of the harness in the event of a fall. All KARAM Harnesses are supplied with a Tell-Tale indicator on special request.



HOW TO WEAR A HARNESS



WHAT IS EXTENSION BAND?

This Extension Band allows the user to easily connect to or disengage from himself the Dorsal attachment D-ring without any external help.

This Unique Optional Extension Band (made of 30cm Length webbing) on the Dorsal Attachment D-ring is provided on request on all models of KARAM Harnesses.

IMPORTANT- It is advisable to use a Lanyard of length less than 1.5m if an Extension Band equipped Harness is used.

TESTED & CERTIFIED



DYNAMIC PERFORMANCE TESTING



STATIC LOAD TESTING

► **REVOLTA SERIES**

**WHY
REVOLTA ?**

Working in hazardous industrial situations like the petrochemical industry, paint and oil industry or water treatment plant can prove to be harmful for users wearing harnesses of a normal webbing. This is due to the accumulation of oil, dust, paint or water on the webbing.

The performance of the webbing deteriorates in this situation because of overexposure. KARAM offers the 'Revolta' range of Harnesses and Lanyards to combat this situation. They are constructed with a special coating that repels oil, dirt and water.

It also allows liquids to bead up and roll off the surface due to changes in surface tension. Coating does not impact the weight, feel, colour and texture of the webbing. Liquid spills can easily be wiped away when blotted with a clean cloth, and dry soil can be brushed off easily.



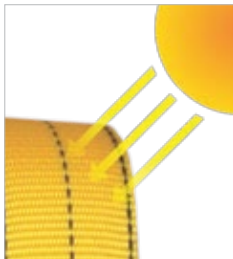
OIL AND DIRT REPELLANT

Webbing is Oil and Dirt repellent that provides resistance from the buildup of oil and dirt.



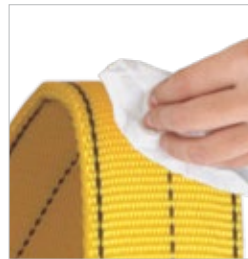
TEAR AND CUT RESISTANT

Highly Tear and Cut resistant because does not allow abrasion due to collection of dust or dirt.



UV RESISTANT

Highly UV Resistant webbing.



EASY TO MAINTAIN

Can easily be wiped in seconds.

Ideal for use in the following Industries:



Petro Chemical Industry



Paint Industry



Water Treatment plant



Food Processing Industry



Off Shore Areas

REVOLTA HARNESSES

Ideal for a variety of applications like petrochemical, paint, water treatment, food processing, offshore and general industry. Also, the range is highly corrosion resistant because of Aluminium D-ring and Stainless Steel Buckles.



▶ REVOLTA ALL PURPOSE HARNESS

Ref. PN 56(OR)

Comes with comfortable back and shoulder padding, this Harness can be used for all applications like rope access, rescue, descent, work positioning and fall arrest.

▶ REVOLTA POSITIONING HARNESS

Ref. PN 44(OR)

This Harness comes with a sternal fall arrest attachment, and is an ideal choice for work positioning while working at height.

▶ REVOLTA CLIMBERS HARNESS

Ref. PN 24(OR)

Equipped with a front attachment D-ring, this harness can be used for climbing up or down structures, while being attached to a fall arrest Rope Grab in the front.



Technical Snapshot				
Ref.	Attachment Points	Adjustability	Weight	Certified to
PN 56(OR)	1 Dorsal and 1 Sternal D-ring for fall arrest. 1 Ventral D-ring at waist level for rope access work and 2 Lateral D-rings for work positioning.	Adjustable shoulder, thigh straps and waist belt. Removable X-back pad on shoulder straps.	2.56 kg	EN 361:2002 EN 358:2018 EN 813:2008
PN 44(OR)	One chest attachment D-ring and a Dorsal attachment D-ring for fall arrest. 2 Lateral attachment D-rings for work positioning.	Adjustable shoulder and thigh-straps. Soft padded work positioning belt gives extreme working comfort and safety.	2.24 kg	EN 361:2002 EN 358:2018
PN 24(OR)	One chest attachment D-ring and a Dorsal attachment D-ring for fall arrest.	Adjustable shoulder and thigh-straps.	1.46 kg	EN 361:2002



REVOLTA LANYARDS

KARAM offers repel technology webbing in their range of Lanyards and Pole Strap which provides excellent resistance from build up of oil, dust, dirt and water.



▶ REVOLTA POLE STRAP

Ref. PN 248(OR)



EN 358:2018

NEW



▶ REVOLTA EXPANDABLE INTERNAL SHOCK ABSORBING FORKED LANYARD

Ref. PN 371(IS)(A)(OR)



EN 355:2002
VG11 RfU CNB/P/11.063
EN 354:2010



▶ REVOLTA EXPANDABLE INTERNAL SHOCK ABSORBING LANYARD

Ref. PN 399(IS)(A)(OR)



EN 355:2002
EN 354:2010

Technical Snapshot				
Ref.	Specifications	Available Length	Attachment Elements	Certified to
PN 248(OR)	44mm wide oil repellent webbing incorporated with 50mm tubular webbing for abrasion resistance.	Adjustable from minimum 1.2m to maximum 2.0m	Aluminum Snap Hooks PN 129 at both the ends.	EN 358:2018
PN 371(IS)(A)(OR)	Expandable Forked Fall Arrest Lanyard. Elastic in nature and prevents tripping hazard.	Expanded length: 2.0m Relaxed length: 1.4m to 1.6m	Aluminum Snap Hook PN 129 at one end and Aluminum Rebar Hooks PN 136 at other ends.	EN 355:2002 VG11 RfU CNB/P/11.063 EN 354:2010
PN 399(IS)(A)(OR)	Expandable fall arrest Lanyard. Elastic in nature and prevents tripping hazard.	Expanded length: 2.0m Relaxed length: 1.4m to 1.6m	Aluminum Rebar Hook PN 136 at one end and Aluminum Snap Hook PN 129 at other end.	EN 355:2002 EN 354:2010

► **NOSPARK SERIES**

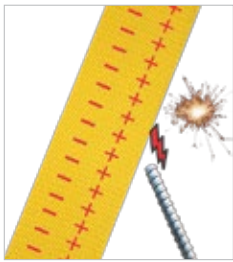
WHY NOSPARK?

A unique challenge while working at height is faced in those areas which have an explosive atmosphere. Besides height, the other big hazard is the presence of volatile compounds in the air.

This air can suddenly burst into flames in the event of the generation of spark.

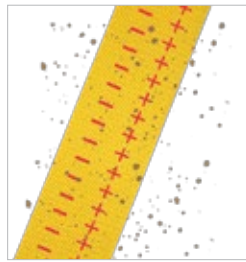
Products made of polymer and plastics are susceptible to create sparking because they tend to accumulate charge on them. Thus all regular Harnesses, made of polyester or similar polymers tend to accumulate charge on them which leads to spark generation.

KARAM 'Nospark' range of Harnesses and Lanyards are specially constructed so as not to collect this charge on them, hence preventing sparks.



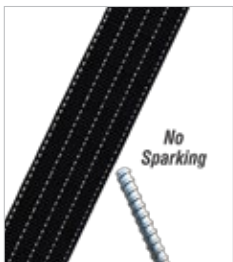
REGULAR WEBBING

Spark results from static charge build up on the Harness and its sudden discharge.



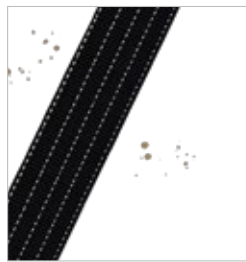
REGULAR WEBBING

Normal webbing attracts dust due to build up of charge.



KARAM SPECIALIZED WEBBING

Nospark webbing of KARAM Harnesses does not allow any charge to build up, hence does not cause any sparking.



KARAM SPECIALIZED WEBBING

The special Anti-Static Nospark range of KARAM Harnesses do not allow dust and micro dirt particles to collect over them since the specialized webbing used does not allow any charge to develop on it.

Ideal for use in the following Industries:



Oil and Gas



Petrochemical Plants



Filling Stations



Mining Industry



Pharmaceutical Industry



Electronic Industry



Medical and Surgical Industry

The Nospark range of KARAM products is **ATEX** certified by **TECHNICKÁ INŠPEKCIA, a.s.**

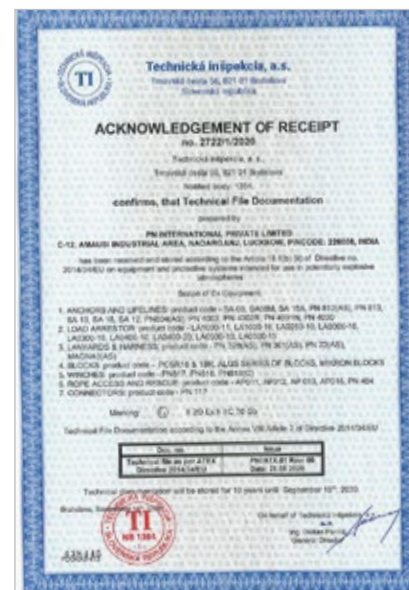
ATEX certification involves a detailed process of examination, testing and assessment of the equipment intended to be used in potentially hazardous areas, with the end result being the issue of ATEX certificate and report, confirming that the product is safe to use within a potentially explosive atmosphere.

The Nospark Harnesses and Lanyards are also CE certified as per relevant EN Norms.



Other KARAM products which are ATEX certified and may be used to create a complete and compatible 'Antistatic' personal protective fall protection cover for the user:

ATEX Certified Products		
Ref.	Product	Page No.
PCGS 3.5N	Retractable Fall Arrest Block in Plastic Casing with GI Wire Rope	171
PCGS 05 to 07		171
PCGS 12 to 20		171
PCGS 25 to 30		171
PCGS 20R(N), 25R and 30R		174
ALGS 04-10	Retractable Fall Arrest Block in Aluminium Casing with GI Wire Rope	176
ALGS 12-20		176
PN 800(DP)	Confined Space Entry	181
PN 800(DPW)		181
SA 17		180
SA 17W		180
PN 4000	Horizontal/ Vertical Line using Aluminium rail/ Stainless Steel wire rope	206
PN 7000		203
PN 8000		204
PN 9000		205
PN 4001	Handyline Temporary Horizontal Lifeline	167
PN 116	Aluminium Screw-Locking Karabiner	113
PN 22AS	NoSpark Harness	71
PN 328(AS)	Antistatic Lanyard	71
PN 361(AS)		71



The revolutionary NOSPARK range of Harnesses and Lanyards offered by KARAM are Anti-Static in nature and are ATEX certified. This Harness is specifically designed to offer the perfect solution for safe working at height in a potentially explosive atmosphere.

NOSPARK HARNESS



Ref. PN 22(AS)

- Forged aluminium Dorsal D-ring for fall arrest.
- Stainless Steel buckles for excellent corrosion resistance.
- Adjustable shoulder and thigh straps.
- Front attachment textile loops for fall arrest.
- Elastic loops equipped with antistatic thread.
- Webbing made of antistatic material prevents the risk of build up of charge.
- The antistatic components of this range prevent the risk of an electro static build up and sudden discharge, igniting the explosive atmosphere.
- Certified to EN 361:2002, ATEX 2014/34/EU (EN ISO 80079-36:2016 and EN ISO 80079-37:2016).
- Harness webbing also tested for surface resistance as per EN 1149-1:2006 and EN 1149-5:2008.
- Weight: 1.46 kg



ATEX 2014/34/EU

EN 361:2002

NOSPARK LANYARDS

KARAM offers Nospark single and Forked Fall Arrest Lanyards for safe working at height. In conjunction with Nospark Harness, the usage of these Lanyards completes a safe antistatic fall protection gear during work at height in hazardous conditions.



➤ NOSPARK ANTISTATIC E.A. FORKED LANYARD

Ref. PN 361(AS)



ATEX 2014/34/EU

EN 355:2002



➤ NOSPARK ANTISTATIC E.A. LANYARD

Ref. PN 328(AS)



ATEX 2014/34/EU

EN 355:2002

Technical Snapshot

Ref.	Material	Available Length	Attachment Elements	Certified to
PN 361(AS)	44mm wide Antistatic webbing.	1.5m 1.8m 2.0m	Aluminium Karabiner PN 117 with Energy Absorber PN 300(AS) at one end and Aluminium Rebar Hook PN 136 at other ends.	EN 355:2002 Atex 2014/34/EU (EN ISO 80079-36:2016, EN ISO 80079-37:2016)
PN 328(AS)		1.0m 1.5m 1.8m 2.0m	Aluminium Karabiner PN 117 with Energy Absorber PN 300(AS) at one end and Aluminium Rebar Hooks PN 136 at other end.	Lanyards webbing also tested for surface resistance as per EN 1149-1:2006 EN 1149-5:2008

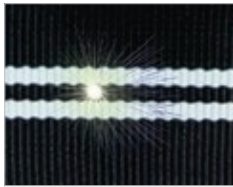
► FLANIL SERIES

WHY FLANIL ?

Working in the Industries like Power, Heat-Furnace and Heavy Engineering poses a risk of exposure to flame sparks generation due to welding. This damages a Harness made up of regular webbing, thereby compromising its strength.

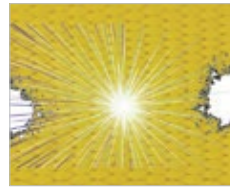
The Flanil range of Harnesses and Lanyards by KARAM has been specially designed for these workers who are engaged in welding and hot working conditions at height.

The webbing of the Flanil Harness and Lanyards is made of a special fibre which is flame resistant and can withstand temperatures of up to 700° F / 371° C without any damage.



KARAM FLANIL WEBBING

KARAM 'FLANIL' webbing withstands exposure to welding sparks and maintains its strength.



REGULAR WEBBING

Normal webbing gets damaged and weak on exposure to welding sparks.

Ideal for use in the following Industries:



Heat Furnace



Heavy Engineering



Power Industry

The Flanil range of KARAM Harnesses and Lanyards has been specially designed for workers engaged in welding and hot working conditions at height.

Webbing of the Flanil Harness and Lanyards is made of a special fibre which is flame resistant and can withstand temperatures of upto 700° F / 371° C without any damage.

FLANIL HARNESSSES



➤ **FLANIL FLAME RESISTANT FULL BODY HARNESS**

Ref. PN 22(FR)



➤ **FLANIL FLAME RESISTANT FULL BODY HARNESS**

Ref. PN 42(02)(FR)

**Comes with Work Positioning Belt PN 02*



Technical Snapshot				
Ref.	Attachment Elements	Adjustability	Weight	Certified to
PN 22(FR)	Two front attachment textile loops in addition to the Dorsal D-ring for fall arrest.	Adjustable chest, shoulder and thigh straps.	1.52 kg	EN 361: 2002 The Webbing is also tested in accordance with EN ISO 15025:2002 and assessed in accordance with EN ISO 9150:1988
PN 42(02)(FR)	Two front attachment textile loops in addition to the Dorsal D-ring for fall arrest. 2 Lateral D-rings at waist level on the sides for work positioning. Soft padding on waist belt, which comes with special flame resistant cover for extended comfort. Ideally positioned Sit-Strap for long lasting comfort.		2.48 kg	EN 358:2018 EN 361:2002 The Webbing is also tested in accordance with EN ISO 15025:2002 and assessed in accordance with EN ISO 9150:1988

FLANIL LANYARDS

KARAM also offers Flame Resistant Lanyards that are compatible with Flanil Flame Resistant Full Body Harnesses to ensure complete protection to the workers engaged in welding and during hot working conditions at height.



➤ **FLANIL FLAME RESISTANT E.A. FORKED EXPANDABLE FALL ARREST LANYARD**

Ref. PN 371(FR)



EN 355:2002
VG 11/RfV Sheet 63
EN ISO 9150:1988
EN ISO 15025:2002



➤ **FLANIL FLAME RESISTANT WORK POSITIONING LANYARD WITH RING TYPE ADJUSTER**

Ref. PN 243(FR)



EN 358:2018
EN ISO 9150:1988
EN ISO 15025:2002



➤ **FLANIL FLAME RESISTANT RESTRAINT FORKED LANYARD**

Ref. PN 261(FR)



EN 354:2002
EN ISO 15025:2002
EN ISO 9150:1988



➤ **FLANIL FLAME RESISTANT E.A. FALL ARREST LANYARD**

Ref. PN 328(FR)



EN 355:2002
EN ISO 15025:2002
EN ISO 9150:1988



➤ **FLANIL FLAME RESISTANT E.A. FALL ARREST FORKED LANYARD**

Ref. PN 361(FR)



EN 355:2002
VG 11/RfU Sheet 63
EN ISO 15025:2002
EN ISO 9150:1988

Technical Snapshot				
Ref.	Specifications	Available Length	Attachment Elements	Certified to
PN 371(FR)	44mm wide flame resistant webbing. Energy Absorber in 44mm wide webbing which limits the impact of the fall to less than 6kN. Covered by a special flame resistant pouch.	Expandable length: 2.0m Relaxed length: 1.4m to 1.6m	Incorporated with Energy Absorber PN 300 (FR) with one side Karabiner PN 112 and two Steel Scaffold Hooks PN 131N at other ends.	EN 355:2002 VG 11/RfU Sheet 63 EN ISO 9150:1988 EN ISO 15025:2002
PN 243(FR)	33mm wide flame resistant webbing. Forged alloy steel ring-adjuster.	2.0m	Provided with Karabiner PN 112 at both ends for attachment.	EN 358:2018 EN ISO 9150:1988 EN ISO 15025:2002
PN 261(FR)	44mm wide flame resistant webbing.	1.5m 1.8m 2.0m	Consists of Karabiner PN 112 at one end and Steel Scaffold Hook PN 131N at other ends.	EN 354:2002 ISO 9150:1988 EN ISO 15025:2002
PN 328(FR)	44mm wide flame resistant webbing. Energy Absorber in 44mm wide webbing which limits the impact of the fall to less than 6kN. Covered by a special flame resistant tubular pouch.	1.0m 1.5m 1.8m 2.0m	Consists of Karabiner PN 112 with Energy Absorber PN 300 (FR) at one end and one Steel Scaffold Hook PN 131N at other end.	EN 355:2002 EN ISO 9150:1988 EN ISO 15025:2002
PN 361(FR)	44mm wide flame resistant webbing. Energy Absorber in 44mm wide webbing which limits the impact of fall to less than 6kN. Covered by a special flame resistant tubular pouch.	1.5m 1.8m 2.0m	Consists of Karabiner PN 112 with Energy Absorber PN 300 (FR) at one end and two Steel Scaffold Hook PN 131N at the other.	EN 355:2002 VG 11/RfU Sheet 63 EN ISO 9150:1988 EN ISO 15025:2002

FLANIL CROSS ARM ANCHOR STRAP

Coupled with Flame Resistant Harness and Lanyard, this Flame Resistant Cross Arm Anchor Strap provides suitable anchorage, completing the entire Flame Resistant Fall Arrest system for a worker.



▶ FLANIL FLAME RESISTANT CROSS ARM ANCHOR STRAP

Ref. PN 804(FR)



EN 795:2012 Type B
EN ISO 15025:2002
EN ISO 9150:1988

Technical Snapshot					
Ref.	Specifications	Available Length	Attachment Elements	Strength	Certified to
PN 804(FR)	44 mm wide Flame Resistant Webbing.	1.0m 1.5m 2.0m	Equipped with forged steel D-rings at both the ends.	Min. 18 kN	EN 795:2012 Type B EN ISO 9150:1988 EN ISO 15025:2002

► DIENOC SERIES

WHY DIENOC ?

There is a challenge of being exposed to free-flowing current while working in Industries like Tower erection, Mining, Transmission or Petroleum.

KARAM offers the Dienoc range of Harnesses having DIELECTRIC D-ring, Buckles and Frames. These are specially designed for workers working in conditions where there are possible electrical hazards.

The special Plastic Coating on all the metal fittings makes the Dienoc Range electrically insulated. The maximum permissible Dielectric Resistance of the Dienoc Range is 12kV.



NORMAL BUCKLE



DIELECTRIC BUCKLE

Ideal for use in following Industries:



Tower Erection



Mining Industry



Transmission Industry



Petroleum Industry

The Dienoc Range of Harnesses and Lanyards has been specially designed for workers working in conditions where there are possible electrical hazards. The use of a special plastic coating on all D-rings and fittings used in this range of Harnesses and Lanyards are completely electrically insulated.

DIENOC HARNESSES



➤ **DIENOC DIELECTRIC NON-CONDUCTIVE HARNESS**

Ref. PN 22(DE)



EN 361:2002



➤ **DIENOC DIELECTRIC NON-CONDUCTIVE HARNESS WITH WORK POSITIONING BELT**

Ref. PN 42(01)(DE)

**Comes with Work Positioning Belt PN 01*



EN 361:2002
EN 358:2018

Technical Snapshot				
Ref.	Attachment Points	Convenience	Weight	Certified to
PN 22(DE)	Two chest attachment textile loops and a non-conductive Dorsal attachment D-ring for fall arrest.	Shoulder straps are elasticated to provide flexibility and snug fitting to the user. Use of special plastic coated D-rings and all metal adjustment buckles make it completely electrically insulated. The Buckles are specially designed for slippage resistance.	1.68 kg	EN 361:2002
PN 42(01)(DE)	Two chest attachment textile loops and a non-conductive Dorsal attachment D-ring for fall arrest. Two non-conductive Lateral D-rings at waist level for work positioning.		2.36 kg	EN 361:2002 EN 358:2018

DIENOC LANYARDS

KARAM introduces Dielectric Lanyards equipped with Dielectric Hooks for use in the transmission industry, offering full protection against electrical hazards.

NEW



➤ **DIENOC E.A. LANYARD**

Ref. PN 326(30)(DE)



NEW



➤ **DIENOC E.A. FORKED LANYARD**

Ref. PN 360(30)(DE)



NEW



➤ **DIENOC E.A. LANYARD**

Ref. PN 329(30)(DE)



NEW



➤ **DIENOC E.A. FORKED LANYARD**

Ref. PN 361(30)(DE)



Technical Snapshot				
Ref.	Specifications	Available Length	Attachment Elements	Certified to
PN 326(30)(DE)	Made of 30mm wide polyester webbing. Energy Absorber PN 300 in 44mm wide webbing which limits the impact of fall to less than 6kN.	1.0m 1.5m 1.8m 2.0m	Dielectric Hook PN 166 at anchorage end.	EN 355:2002
PN 360(30)(DE)		1.5m 1.8m 2.0m	Two Dielectric Hooks PN 166 at anchorage ends.	EN 355:2002 VG11/RfU Sheet 63
PN 329(30)(DE)		1.0m 1.5m 1.8m 2.0m	Dielectric Hook PN 166 at anchorage end and Dielectric Snap Hook PN 172 at attachment end.	EN 355:2002
PN 361(30)(DE)		1.5m 1.8m 2.0m	Two Dielectric Hooks PN 166 at anchorage ends and Dielectric Snap Hook PN 172 at attachment end.	EN 355:2002 VG11/RfU Sheet 63

► VEST HARNESSSES

Equipped with multiple pockets, KARAM Vest Harnesses are specially designed into mesh net vests for tangle-free body wear.



Ref. PN 20



Ref. PN 20(RO)



Ref. PN 20(RG)



Technical Snapshot

Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
PN 20	Polyester	FA	✓	✓		1.66 kg	Adjustable chest, shoulder and thigh straps.	EN 361:2002	
PN 20(RO)		FA	✓	✓		1.82 kg			
PN 20(RG)		FA	✓	✓		1.80 kg			



► **ELASTO SERIES**

KARAM Elasto Range constitutes special stretchable Harnesses designed for total comfort to the wearer. The elastic webbing used in these Harnesses provides for greater freedom of movement. It allows the wearer to twist and flex freely during long hours of work. The metal components in this range are made up of stainless steel for excellent corrosion resistance. These Harnesses are an ideal choice for working on transmission towers.

ELASTO HARNESSES



Ref. PN 74

140 kg EN 361:2002



Ref. PN 94

140 kg EN 361:2002
EN 358:2018

Technical Snapshot						
Ref.	Material	Attachment Points	Adjustability	Convenience	Weight	Certified to
PN 74	Polyester	A sternal attachment D-Ring and a Dorsal attachment D-ring for fall arrest.	Adjustable shoulder and thigh straps.	Metal components made up of Stainless Steel for excellent corrosion protection.	1.26 kg	EN 361:2002
PN 94	Polyester	A sternal attachment D-Ring and a Dorsal attachment D-ring for fall arrest and 2 Lateral D-Rings for work positioning.			1.96 kg	EN 361:2002 EN 358:2018

KARAM is proud to keep pace with the demand for constant innovation in product towards providing customer delight. We are pleased to announce the unveiling of Magna, Rhino, E-Con and KI Series of Harnesses coupled with the features like never before.

➤ **THE NEW, IMPROVISED, ABRASION RESISTANT WEBBING**

One of the major problems observed in the webbing of the Harness is that it gets abraded when used multiple times. The abrasion occurs due to excessive wear and tear of the Harness.

With over twenty years of constant innovation and research, KARAM understanding the needs of the customer, has come up with an ideal solution to the above problem.

KARAM is one of the first companies in India to introduce this pioneering technology of a superior ABRASION resistant webbing in the Harness. Our webbing conforms to the stringent American standard ANSI Z 359.11.2014.

This special property enhances the life of the Harness in the long term, which is most benefitting to the user.



Abrasion Resistance



Scan here to watch the abrasion resistant test on KARAM Harness Webbing

➤ **A HARNESS EMBRACING THE NEW AGE TECHNOLOGY**

KARAM Magna range of Harnesses come with RFID Tag which is also an important tool used to combat the problem of the sale of fake KARAM products. It identifies the Harness as a genuine KARAM product and tracks the authenticity to its roots. This tag when scanned from an Android or iOS phone, takes you directly to the KARAM KARE app.

KARE by KARAM is India's only mobile application for safety equipment asset management. It reminds the user of pending inspection and provides access to information related to the Harness- its batch number, technical documents, correct areas of use, and much more. In short, KARE provides a one-stop safety solution in creating awareness for the use of PPE.



RFID Tag



Scan here to download the KARE app

MAGNA

Magna is the premium range of KARAM Harnesses and comes with the highest features of ergonomics, comfort, safety, quick-connect automatic buckles, and tangle-free design.

Features Like Never Before!

► Unique Label Protector

Magna series of Harnesses are equipped a unique Label Protector with velcro cover for holding Harness labels and identification tag securely.

► Locking Indicator On Automatic Buckles

Extremely easy to use with single hand adjustment, the Automatic Buckles come with Locking Indicator which is seen when the buckle lock is fully engaged.

► Bend Aluminium D-Rings

Lightweight forged aluminum D-Rings, specially designed with 'BEND' to stand out, enabling easy accessibility to the user doing positioning at all times.

► Metal Fittings Capable Of Taking The Salt Spray Test Of More Than 500 Hours

Metal Fittings with CED coatings are capable of taking salt spray test of more than 500 hours.

► Elasticated Loops

Specially designed to retain the excess strap while adjustment.

► Adjustment Buckles

All adjustment buckles provided with a unique "Pull Grip", making it easy to pull down with the thumb and adjust all straps easily for a good fit.



► Comfortable And Breathable Padding

Now work for longer hours..without any fatigue! The padding is uniquely designed to allow the air to flow inside the padding for a sweat-free feel. The ergonomic design reduces irritation caused due to sweat, improves airflow and reduces heat and moisture entrapment.

► The All-New Registered Design Of Webbing

The beautiful combination of grey and red stripes enhances the look of the Harness and provides you the most classy and stylish appearance while at work.

► Heavy Duty Webbing

The Harness uses a heavy-duty webbing that is almost twice as strong as the standards require, and is certain to provide the longest service life possible.

► *Re-Engineered Stitching Pattern

Automatic, computerized stitching pattern on the Harnesses to ensure the accurate number of stitches per inch. This ensures consistency of breaking strength of each stitched point.

► CED Coating On All Metal Fittings For Best Corrosion Resistance

The coating on all metal parts changes from Galvanized to CED coating to provide the highest degree of corrosion protection packed with high aesthetic appeal.

► New MAGNA Logo

Unveiling the New Magna Logo for adding an enhanced style.

MAGNA



MAGNA 1

Magna 1 Harness has a Dorsal attachment D-Ring, and two front attachment textile loops for fall arrest. It is equipped with fully padded and adjustable shoulder straps with ergonomically designed padding for reducing irritation caused due to sweat, improving airflow and reducing heat and moisture entrapment.



MAGNA 2

Magna 2 Harness is one of the most extensively used Harnesses of KARAM, particularly for tower and ladder climbing. The sternal attachment textile loops can be attached to a Rope Grab to allow safe anchorage while climbing. The two lateral D-rings on this Harness provide attachment for Work-Positioning Lanyards, enabling safe and comfortable positioning at height. The padded work positioning belt is provided with a bigger handle at the back for attaching an extra Karabiner or a Connector.



MAGNA 3

Equipped with the all features of adjustability and ergonomics, KARAM Magna 3 is an ideal Harness for fall arrest and Work Positioning while working at height for long hours. However, it is the Ventral and Sternal attachment D-rings on this Harness that make it the right choice for use in rescue, rope access, tower climbing and window cleaning. The X-shaped construction wraps to reduce pressure points during prolonged suspension.

Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
Magna 1	Polyester	FA	✓	✓			1.75 kg	Adjustable shoulder, chest strap and thigh straps.	EN 361:2002 AS/NZS 1891.1:2020
Magna 2		FA + WP	✓	✓	✓		2.33 kg	Adjustable shoulder, chest strap and thigh straps.	EN 361:2002 EN 358:2018 AS/NZS 1891.1:2020
Magna 3		FA + WP + RA	✓	✓	✓	✓	2.31 kg	Adjustable shoulder, thigh straps and waist belt.	EN 361:2002 EN 358:2018 EN 813:2008 AS/NZS 1891.1:2020



► RHINO SERIES

Equipped with unique features that provide full comfort and ergonomics to the wearer, this range of Harnesses withstands the highest test of safety standards as laid out in the European Norms, and is CE certified.

Features Like Never Before!



► CED Coating On All Metal Fittings For Best Corrosion Resistance

The coating on all metal parts changed from Galvanized to CED coating to provide the highest degree of corrosion protection packed with high aesthetic appeal.

► Metal Fittings Capable Of Taking the Salt Spray Test Of More Than 500 Hours

Metal Fittings with CED coatings are capable of taking salt spray test of more than 500 hours.

► Retro-Reflective Thread

2 stripes of webbing thread are retro-reflective. Designed to keep you safe by allowing the user to be visible when light is thrown at him.

► Improved Registered Webbing Design

The new webbing maintains comfort at all times without compromising on mobility.

► *Unique Aesthetic Stitching Pattern

For enhanced stitching strength, durability and a smart design.

► Bigger Dia Lateral D-Rings

Has Lateral D-rings with much bigger dia on Work Positioning Belt to enable easy attachment of Work Positioning Lanyard. Also enables snag-free connection to bigger size Hooks.

► Unique Label Protector

Rhino series of Harnesses are now equipped with a unique Label Protector with velcro cover for holding Harness labels and identification tag securely.

► Ergonomic And Durable ID Plate

Rhino Series of Harnesses are now more durable and sturdy with robust ID plates having an increased life.

► Heavy Duty Webbing

The Harness has a heavy-duty webbing that is almost twice as strong as the standards require, and are certain to provide the longest service life possible.



Ref. PN 57

PN 57 is a Tower Harness having a fully padded and adjustable work positioning belt with a knitted mesh pad to provide an extreme level of support to the back while working at height. The Karabiner at the front of the harness enables the wearer to easily wear or remove the Harness by simply attaching/detaching it.

Also available with extension band - Ref. PN 57(E)



Ref. PN 56

PN 56 is a comfortable Harness and very versatile in use. It is the most popular Harness used to carry out the rescue of a fall victim, by descent. Consisting of adjustment buckles with a unique "Pull Grip", the straps of the harness can easily be adjusted for a good fit.

Also available with extension band - Ref. PN 56(E)



EN 361:2002
EN 358:2018
EN 813:2008



EN 361:2002
EN 358:2018
EN 813:2008

Technical Snapshot

Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
PN 57	Polyester	FA+WP+RA	✓		✓	✓	2.31 kg	Adjustable shoulder and thigh straps.	EN 361:2002 EN 358:2018 EN 813:2008
PN 56		FA+WP+RA+R	✓	✓	✓	✓	2.38 kg	Adjustable shoulder, and thigh straps.	





Ref. PN 51 (Sit Harness)

KARAM Sit Harness PN 51 is ideal for work positioning and restraint. It is a Sit Harness, and is not a Harness for fall protection. Best suited Harness for use in Work Positioning and Restraint.



Ref. PN 45(01) PN 45(02) PN 45(03)

The suspension strap incorporated on the shoulder strap of the Harness PN 45 has a D-ring which can be used to connect to the rescue equipment, when in need. It is not to be used for suspension but for retrieval. When not in use, the suspension strap lies attached to the shoulder strap with the velcro binding.



Ref. PN 44(01) PN 44(02) PN 44(03)

PN 44 is an ideal Harness equipped with one chest attachment D-ring and Dorsal D-ring for fall arrest. It also has two Lateral D-rings for work positioning. Is best suited for tower climbing and work positioning at height.

Also available with extension band - Ref. PN 44(01)(E), PN 44(02)(E), PN 44(03)(E)



EN 358:2018
EN 813:2008



EN 361:2002
EN 358:2018
EN 1497:2007



AS/NZS
1891.1:2020



EN 361:2002
EN 358:2018

Technical Snapshot

Ref.	Material	Application	Attachment Points				Rescue Strap	Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 				
PN 51	Polyester	WP+RA			✓	✓	NA	1.54 kg	Adjustable thigh straps and waist belt.	EN 358:2018 EN 813:2008
PN 45	Polyester	FA+WP+R	✓	✓	✓		Yes	2.37 kg	Adjustable shoulder, chest straps, thigh straps and waist belt.	EN 361:2002 EN 358:2018 EN 1497:2007
PN 44		FA+WP	✓	✓	✓		NA	2.20 kg		EN 361:2002 EN 358:2018 AS/NZS 1891.1:2020



Ref. PN 43(01)
PN 43(02)
PN 43(03)

Equipped with 2 chest attachment D-rings and all the adjustability features, PN 43 is the ideal Harness for tower climbing, work positioning and working on a mast.

Also available with extension band - Ref. PN 43(01)(E), PN 43(02)(E), PN 43(03)(E)



Ref. PN 42(01)
PN 42(02)
PN 42(03)

Comprising Chest Attachment textile loops, this Harness is the best Harness for tower climbing and work positioning at height.

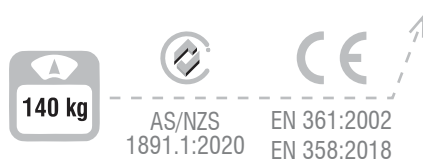
Also available with extension band - Ref. PN 42(01)(E), PN 42(02)(E), PN 42(03)(E)



Ref. PN 41(01)
PN 41(02)
PN 41(03)

With all the adjustability features, KARAM PN 41 is a specialized Harness for fall arrest and work positioning at height in industries like chemicals and fertilizers.

Also available with extension band - Ref. PN 41(01)(E), PN 41(02)(E), PN 41(03)(E)



Technical Snapshot									
Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
PN 43	Polyester	FA+WP	✓	✓	✓		2.31 kg	Adjustable shoulder, chest strap, thigh straps and waist belt.	EN 361:2002 EN 358:2018
PN 42		FA+WP	✓	✓	✓		2.04 kg		EN 361:2002 EN 358:2018 AS/NZS 1891.1:2020
PN 41		FA+WP	✓		✓		2.07 kg		EN 361:2002 EN 358:2018





Ref. PN 32(01)
PN 32(02)
PN 32(03)

Has 2 Chest attachment textile loops, adjustable waist and thigh straps with 2 lateral D-ring for work positioning.

Also available with extension band - Ref. PN 32(01)(E), PN 32(02)(E), PN 32(03)(E)



Ref. PN 31(01)
PN 31(02)
PN 31(03)

Adjustable waist and thigh straps with 2 lateral D-ring for work positioning.

Also available with extension band - Ref. PN 31(01)(E), PN 31(02)(E), PN 31(03)(E)



Ref. PN 25

The Extension Rescue Strap incorporated on the shoulder strap of the Harness has a D-ring that can be used to connect to the Rescue Equipment, when in need. It allows easy rescue of the worker and minimizes his discomfort while being rescued. When not in use, the Extension Rescue Strap lies attached to the shoulder strap with the help of Velcro binding.



Technical Snapshot

Ref.	Material	Application	Attachment Points					Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 	Rescue Strap 			
PN 32		FA+WP	✓	✓	✓			1.67 kg	Adjustable chest strap, thigh straps and waist belt.	EN 361:2002 EN 358:2018
PN 31	Polyester	FA+WP	✓		✓			1.61 kg	Adjustable chest strap, thigh straps and waist belt.	EN 361:2002 EN 358:2018
PN 25		FA+R	✓	✓				1.58 kg	Adjustable chest, shoulder strap and thigh straps.	EN 361:2002 EN 1497:2007



Ref. PN 24

Consists of 1 chest attachment D-ring with adjustable shoulder and thigh straps. Is best suited for Fall arrest application.

Also available with extension band - Ref. PN 24(E)



Ref. PN 23

Has two chest attachment D-rings, adjustable shoulders and thigh strap with ideally positioned sit strap for extended comfort.

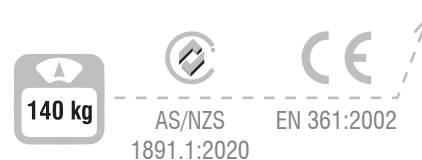
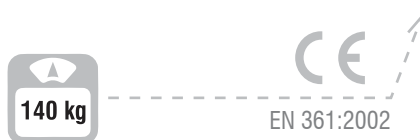
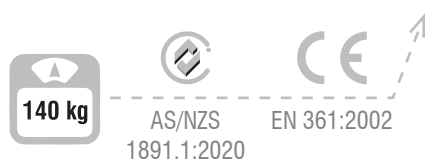
Also available with extension band - Ref. PN 23(E)



Ref. PN 22

Has two chest attachment textile loops with adjustable shoulder, chest strap and thigh strap.

Also available with extension band - Ref. PN 22(E)



Technical Snapshot									
Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
PN 24	Polyester	FA	✓	✓			1.38 kg	Adjustable shoulder, chest and thigh straps.	EN 361:2002 AS/NZS 1891.1:2020
PN 23		FA	✓	✓			1.50 kg		EN 361:2002
PN 22		FA	✓	✓			1.30 kg		EN 361:2002 AS/NZS 1891.1:2020

FA - Fall Arrest





Ref. PN 21

Has adjustable chest and thigh straps with ideally positioned sit strap for extended comfort.

Also available with extension band - Ref. PN 21(E)



Ref. PN 12

PN 12 is a basic CE compliant Harness, having adjustable chest and thigh straps. In addition to the Dorsal D-ring, this Harness is also provided with 2 front attachments textile loops for fall arrest.

Also available with extension band - Ref. PN 12 (E)



Ref. PN 11

PN 11 is a basic CE compliant Harness, having adjustable chest and thigh straps, with a Dorsal D-ring for fall arrest.

Also available with extension band - Ref. PN 11 (E)



Technical Snapshot

Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
PN 21	Polyester	FA	✓				Adjustable chest, shoulder and thigh straps.	EN 361:2002	
PN 12		FA	✓	✓			Adjustable chest and thigh straps.		
PN 11		FA	✓						

► E-CON SERIES

KARAM offers a wide range of fall protection Harnesses conforming to ISI standards, which comes with all the features of Safety to fight the fatalities of such events. Manufactured from new advanced polyester webbing, and equipped with specially designed easy-to-use buckles for attachment, the KARAM series of E-Con Harnesses provides an easy solution to most fall hazard situations.

Features Like Never Before!



► Now Comes with Fall Indicator

The Indicator is a small label stitched to the backside of the shoulder strap that flies out of the Harness in the event of a fall. All KARAM ECON series of Harnesses come with this indicator.

► Newly Designed Buckles

All Buckles in this range now come with better-rounded contours to ensure better locking and lesser chances of accidental opening.

► Uniquely Registered Designed Webbing

For adding Style with Safety-KARAM E-CON Series of Harnesses comes in a conspicuous combination of Red and Black with a unique design of webbing for becoming an ideal choice for the user.

► *Re-engineered Stitching Pattern

Automatic, computerized stitching pattern on the Harnesses to ensure the accurate number of stitches per inch. This ensures consistency of breaking strength of each stitched point.

► Heavy-Duty Webbing

The Harness is made of heavy-duty webbing that is almost twice as strong as the standards require, and is certain to provide the longest service life possible.

► Enhanced Sit Strap Design

The E-CON range of Harnesses comes with a new design of sit strap to increase its durability.



E-CON HARNESSSES



➤ **FULL BODY HARNESS FOR CONTROLLED DESCENT (CLASS D)**

Ref. PN 14

Harness best suited for a controlled descent in confined spaces.



IS 3521:1999



➤ **FULL BODY HARNESS FOR BASIC FALL ARREST (CLASS A)**

Ref. PN 16

Equipped with fully adjustable chest, shoulder and thigh straps, PN 16 is the basic Harness for fall arrest.



IS 3521:1999



➤ **FULL BODY HARNESS FOR POSITIONING (CLASS P)**

Ref. PN 17

Along with all the features of PN 16, PN 17 has two Lateral D-Rings at the sides for positioning at heights.



IS 3521:1999

Technical Snapshot

Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
PN 14	Polyester	FA	✓	✓			Adjustable thigh straps.	IS 3521:1999	
PN 16		FA	✓				Adjustable chest, shoulder, and thigh straps.		
PN 17		FA+WP	✓		✓		Adjustable chest, waist and thigh straps.		



➤ **FULL BODY HARNESS FOR TOWER CLIMBING (CLASS L)**

Ref. PN 18

Equipped with all the features of basic Harness, PN 18 is the best Harness for tower climbing.

➤ **FULL BODY HARNESS FOR TOWER CLIMBING (CLASS L)**

Ref. PN 18(H)

Along with Dorsal and Sternal D-ring for fall arrest, PN 18(H) has straight thigh straps for more comfort to the user.

➤ **FULL BODY HARNESS FOR ENTRY AND EXIT IN CONFINED SPACE (CLASS E)**

Ref. PN 19

PN 19 is the Harness specifically meant for lowering or raising of personnel and rescue in confined space.



IS 3521:1999



IS 3521:1999



IS 3521:1999

Technical Snapshot

Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
PN 18	Polyester	FA	✓	✓		1.25 kg	Adjustable chest, shoulder, and thigh straps.	IS 3521:1999	
PN 18(H)		FA	✓	✓		1.34 kg			
PN 19		FA+R	✓			1.03 kg			



E-CON RESTRAINT LANYARDS

KARAM E-Con Harnesses also come with an option of Polypropylene Lanyards of 2.0m spliced at the Dorsal D-ring.



Ref. PN 204(PP)

Equipped with 2.0m Restraint Lanyard, the Lanyard has one side loop and Steel Snap Hook PN 121 on the other side.



Ref. PN 206N(PP)

Equipped with 2.0m Restraint Lanyard, the Lanyard has one side loop and Steel Scaffold Hook PN 131N on the other side.



Ref. PN 206N(D)

Equipped with two Restraint Lanyards of 2.0m each, these Lanyard consists of one side loop and Steel Scaffold Hook PN 131N on the other side.

► KI SERIES

Working conditions are changing globally, becoming more challenging and competitive. So, to address the safety needs of people working on heights, KARAM has upgraded its KI Series of Harnesses to ensure comfort, best fit, ease of use, style, durability, reliability, and compliance.

Features Like Never Before!



► Improved Registered Webbing Design

The new webbing maintains comfort at all times without compromising on mobility.

► Heavy-Duty Webbing

The Harness has a heavy-duty webbing that is almost twice as strong as the standards require, and is certain to provide the longest service life possible.

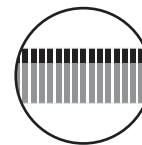
► Enhanced Sit Strap Design

The KI range of Harnesses comes with a new design of sit strap to increase its durability.

► *Re-Engineered Stitching Pattern

Automatic, computerized stitching pattern on the Harnesses to ensure the accurate number of stitches per inch. This ensures consistency of breaking strength of each stitched point.

► Harness Webbing Features



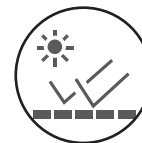
Superior strength



Highly durable



High abrasion resistance



UV resistance





➤ Ref. KI 01

Basic IS compliant Harness, having adjustable chest and thigh straps, along with a Dorsal D-ring for fall arrest.



IS 3521:1999



➤ Ref. KI 02

Has two chest attachment D-rings with adjustable chest and thigh straps.



IS 3521:1999

Technical Snapshot

Ref.	Material	Application	Attachment Points				Weight	Adjustability	Certified to
			Dorsal 	Sternal 	Lateral 	Ventral 			
KI 01	Polyester	FA	✓				890 gms	Adjustable chest and thigh straps.	IS 3521:1999
KI 02		FA	✓	✓			1.04 kg		

KI SERIES RESTRAINT LANYARDS

KARAM KI Series Harnesses also come with an option of Polypropylene Lanyards of 2.0m spliced at the Dorsal D-ring.



Ref. PN 204(PP)

Equipped with 2.0m Restraint Lanyard, the Lanyard has one side loop and Steel Snap Hook PN 121 on the other side.



Ref. PN 206N(PP)

Equipped with 2.0m Restraint Lanyard, the Lanyard has one side loop and Steel Scaffold Hook PN 131N on the other side.



Ref. PN 206N(D)

Equipped with two Restraint Lanyards of 2.0m each, these Lanyard consists of one side loop and Steel Scaffold Hook PN 131N on the other side.

► WORK POSITIONING BELTS

The Work Positioning System comprises a work positioning belt along with a work positioning lanyard. This enables the worker to work at heights in a well-supported position with both his hands-free



KARAM Work Positioning Belts have a sliding belt on the comfort pad which enables the user to easily position the adjustment buckle of the belt at the centre of his waist for smooth functioning.

The Work Positioning Belts and Work Positioning Lanyards, however, should not be used for Fall Protection.



Ref. PN 01

Ref. PN 02



Ref. PN 03

Technical Snapshot						
Ref.	Width of Back Pad	Attachment Elements	Convenience	Weight	Sizes	Certified to
PN 01	21.0cm	Two Lateral D-rings for work positioning	Tool holding webbing loops and rings for tool holders, bolt bags, etc.	680gms	Medium, Large, Extra Large	EN 358:2018
PN 02	14.5cm			640gms		
PN 03	14.5cm		Rings for tool holders, bolt bags, etc.	520gms		



► SUSPENSION INTOLERANCE STRAP

Ref. STS 01(N)



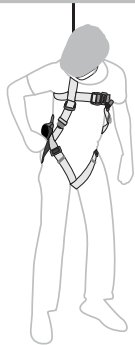
Scan here for a virtual tour of the product

- Specially designed to help relieve the negative effects of Suspension Trauma.
- Compact and light-weight. Does not hamper with the activity of the worker while at work.
- Easy to attach to the harness with the help of the textile loop and velcro provided.

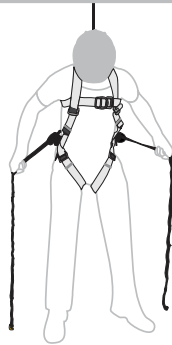


KARAM provide Harnesses fitted with Suspension Intolerance Strap on request.

STEPS TO USE



Unzip the pouches fitted on both sides of the harness.



Hold the 2 straps together.



connect the straps with each other making a loop with the help of the easy-to-use buckle.



Put your feet into the loop.



Stand onto the loop, so that the thigh straps are free to move.



Adjust the sit strap towards the front to release pressure and give a sitting posture.

► TOOLS LANYARDS

Accidents are also known to occur when tools fall from the hand of a worker who is using them while working at a height. KARAM offers Tools Lanyard with improved elasticated webbing which can be connected to the belt of the Harness at one end and has a loop at the other end to hold tools that weigh up to 10kg.



Scan here for a virtual tour of the product

► GENERAL FEATURES

- Made of 20mm wide tubular webbing.
- Provided with a light-weight Karabiner for attachment to the user's belt.
- Relaxed length: 85cm
- Expanded length: 135cm

NEW



► TOOLS LANYARD

Ref. TL 01(N)

Convenient stretch-lanyard for tool holding.



► TWIN TOOLS LANYARD

Ref. TL 02(N)

Convenient "Y" leg stretch-lanyard for tool holding, allow the user to attach and carry 2 tools.



HOOKS AND KARABINERS



To meet the different hazard situations encountered in the field, KARAM offers a wide range of Hooks and Karabiners having distinguished features. The range is designed for a specific use based on its material, shape, size, gate-opening capacity and locking system.

Advantages Of Different Types Of Karabiners

Based on the locking mechanism there are different types of Karabiners which include screw-gate type, double action and triple action to meet different needs for each application for a precise balance between ergonomics and safety.



SCREW LOCKING KARABINER

- Reliability in harsh or dirty environments.
- Immediate alert in case of wrong locking.
- Features a threaded nut over gate which locks manually when desired by user.
- Easier to employ with one-hand.



DOUBLE ACTION LOCKING KARABINER

- Fast and rapid auto-locking.
- Speed and ease in opening.



TRIPLE ACTION LOCKING KARABINER

- Highest security.
- Rapid auto-locking.



HARDNESS TESTING



PROOF LOAD TESTING

← Testing
↓

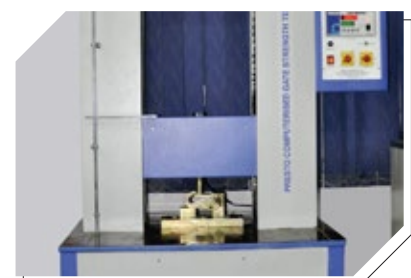
TESTED & CERTIFIED



UIAA



SALT SPRAY TESTING

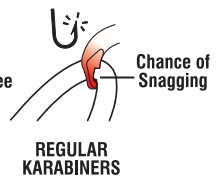
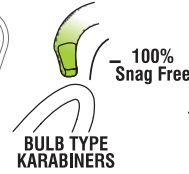


GATE STRENGTH TESTING

► **BULB TYPE KARABINERS**

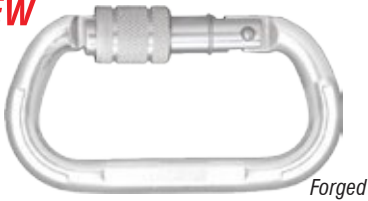
KARAM offers Bulb-type Karabiners with unique Keylock System. Hence the body/gate interface unlike the regular Karabiners, does not snag on Anchors, Ropes, Harness equipment loops, etc.

Certified to EN 362:2004.



Captive Pin - This is an Additional Pin fitted to the Karabiner to prevent it from disengaging from the Lanyard. The code for the product is written as the Ref. no. of the product along with (C), for eg. PN 111BE(C). Available with Captive Pin on request.

NEW

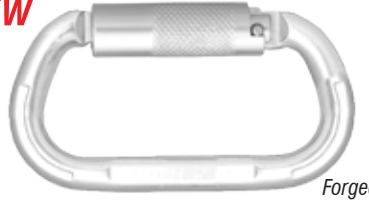


Forged

Aluminium Screw Locking Bulb Type Karabiner

Ref. PN 105

NEW

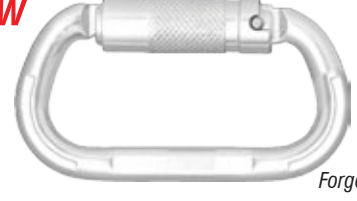


Forged

Aluminium Quarter Turn Locking Bulb Type Karabiner

Ref. PN 106

NEW



Forged

Aluminium Triple Action Locking Bulb Type Karabiner

Ref. PN 107

NEW



Forged

* Available with Captive Pin

Steel Quarter Turn Locking Bulb Type Karabiner

Ref. PN 111BE

NEW



Forged

* Available with Captive Pin

Stainless Steel Quarter Turn Locking Bulb Type Karabiner

Ref. PN 111BESS

NEW



Forged

* Available with Captive Pin

Steel Screw Locking Bulb Type Karabiner

Ref. PN 112BE

NEW



Forged

* Available with Captive Pin

Steel Screw Locking Bulb Type Karabiner with Lock Indicator

Ref. PN 112B(LI)



Forged

* Available with Captive Pin

Steel Quarter Turn Locking Bulb Type Karabiner

Ref. PN 113BE

NEW



Forged

* Available with Captive Pin

Steel Triple Action Locking Bulb Type Karabiner

Ref. PN 114BE

NEW



Forged

* Available with Captive Pin

Steel Quarter Turn Locking Bulb Type Karabiner

Ref. PN 115BE

NEW



Forged

* Available with Captive Pin

Steel Triple Action Locking Bulb Type Karabiner

Ref. PN 115TBE

NEW



Forged

* Available with Captive Pin

Stainless Steel Quarter Turn Bulb Type Locking Karabiner

Ref. PN 115BE SS



* Available with Captive Pin Forged

Stainless Steel Triple Action Locking Bulb Type Karabiner

Ref. PN 115TBE SS



* Available with Captive Pin Forged

Aluminium Screw Locking Bulb Type Karabiner

Ref. PN 116BE



* Available with Captive Pin Forged

Aluminium Screw Locking Bulb Type Karabiner

Ref. PN 116FBE



* Available with Captive Pin Forged

Aluminium Screw Locking Bulb Type Karabiner with Lock Indicator

Ref. PN 116B(LI)



* Available with Captive Pin Forged

Aluminium Quarter Turn Locking Bulb Type Karabiner

Ref. PN 117BE

Technical Snapshot

Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 105	Aluminium alloy	15.0mm	23kN	80.0gm	Natural silver/ Coloured anodized	EN 362:2004 Class B
PN 106		14.0mm		85.0gm		
PN 107		14.0mm				
PN 111BE	Alloy steel	15.0mm		200.0gm	Silver / Golden yellow galvanized	
PN 111BE SS	Stainless steel	15.0mm		195.5gm	Polished	
PN 112BE	Alloy steel	15.0mm		167.0gm	Silver / Golden yellow galvanized	
PN 112B(LI)		16.0mm	167.0gm			
PN 113BE		22.0mm	45kN	250.0gm		
PN 114BE	22.0mm	248.0gm				
PN 115BE	Alloy steel	17.0mm	23kN	206.0gm	Silver / Golden yellow galvanized	EN 362:2004 Class B
PN 115TBE		17.0mm		203.0gm		
PN 115BE SS	Stainless Steel	17.0mm		215.0gm	Polished	
PN 115TBE SS		17.0mm		215.0gm		
PN 116BE	Aluminium Alloy	21.0mm		82.0gm	Natural Silver / Coloured Anodized	
PN 116FBE		20.0mm		82.0gm		
PN 116B(LI)		21.0mm	82.0gm			
PN 117BE		20.0mm	87.0gm			



NEW



Forged

* Available with Captive Pin

Aluminium Quarter Turn Locking Bulb Type Karabiner

Ref. PN 117FBE

NEW



Forged

* Available with Captive Pin

Aluminium Triple Action Locking Bulb Type Karabiner

Ref. PN 118BE

NEW



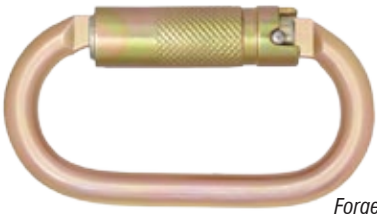
Forged

* Available with Captive Pin

Aluminium Triple Action Locking Bulb Type Karabiner

Ref. PN 118FBE

NEW



Forged

* Available with Captive Pin

Steel Triple Action Locking Bulb Type Karabiner

Ref. PN 119TBE

NEW



Forged

* Available with Captive Pin

Stainless Steel Triple Action Locking Bulb Type Karabiner

Ref. PN 119TBESS

NEW



Forged

Aluminium Swivel Quarter Turn Locking Bulb Type Hook with Fall Indicator

Ref. PN 130

NEW



Forged

Aluminium Swivel Quarter Turn Locking Bulb Type Hook without Indicator

Ref. PN 130P

NEW



Forged

Aluminium Swivel Triple Action Locking Bulb Type Hook with Fall Indicator

Ref. PN 130T

Technical Snapshot

Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 117FBE	Aluminium Alloy	21.0mm	23kN	87.0gm	Natural Silver / Coloured Anodized	EN 362:2004 Class B
PN 118BE		20.0mm		87.0gm		
PN 118FBE		20.0mm		87.0gm		
PN 119TBE	Alloy Steel	16.0mm	25kN	190.0gm	Silver / Golden yellow galvanized	
PN 119TBE SS	Stainless Steel	13.5mm	23kN	185.0gm	Polished	
PN 130	Aluminium Alloy	18.0mm		182.0gm	Natural Silver / Coloured Anodized	EN 362:2004 Class T
PN 130P		18.0mm		185.0gm		
PN 130T		18.0mm		182.0gm		



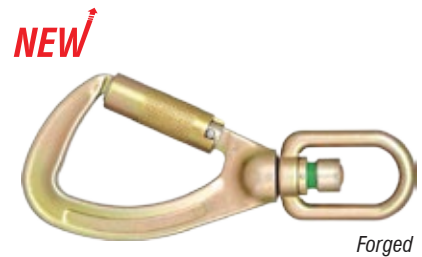
Aluminium Quarter Turn Locking Bulb Type Hook

Ref. PN 160



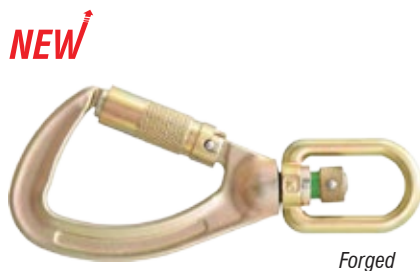
Aluminium Triple Action Locking Bulb Type Hook

Ref. PN 160T



Steel Swivel Quarter Turn Locking Bulb Type Snap Hook with Load Indicator

Ref. PN 165



Steel Swivel Triple Action Locking Bulb Type Snap Hook with Load Indicator

Ref. PN 165T



Aluminium Screw Locking Bulb Type Karabiner

Ref. PN 192BE



Aluminium Quarter Turn Locking Bulb Type Karabiner

Ref. PN 193BE



Aluminium Triple Action Locking Bulb Type Karabiner

Ref. PN 193TBE



Steel Screw Locking Bulb Type Karabiner

Ref. PN 194BE



Steel Quarter Turn Locking Bulb Type Karabiner

Ref. PN 195BE



Stainless Steel Quarter Turn Locking Bulb Type Karabiner

Ref. PN 195BESS



Steel Triple Action Locking Bulb Type Karabiner

Ref. PN 195TBE



Stainless Steel Triple Action Locking Bulb Type Karabiner

Ref. PN 195TBESS

Technical Snapshot							
Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to	
PN 160	Aluminium Alloy	22.0mm	23kN	136.0gm	Natural silver / Colored anodized	EN 362:2004 Class T	
PN 160T		22.0mm		136.0gm			
PN 165	Alloy Steel	22.0mm		400.0gm	Silver / Golden yellow galvanized, shot blasted on request		
PN 165T		21.0mm		400.0gm			
PN 192BE	Aluminium Alloy	25.4mm		45kN	95.0gm		Natural silver / Colored anodized
PN 193BE		24.0mm			92.0gm		
PN 193TBE		24.0mm	93.0gm				
PN 194BE	Alloy Steel	25.4mm	50kN		222.0gm	Silver / Golden yellow galvanized	EN 362:2004 Class B
PN 195BE		25.4mm			270.0gm		
PN 195BESS	Stainless Steel	25.4mm			280.0gm	Polished	
PN 195TBE	Alloy Steel	25.4mm			260.0gm	Silver / Golden yellow galvanized	
PN 195TBESS	Stainless Steel	25.4mm			280.0gm	Polished	

► STEEL HOOKS AND KARABINERS

KARAM provides Steel Karabiners having screw locking, twist locking and triple locking features, to suit a wide range of applications and a variety of Steel Hooks to suit the application as per the user's requirement.



Captive Pin - This is an Additional Pin fitted to the Karabiner to prevent it from disengaging from the Lanyard. The code for the product is written as the Ref. no. of the product along with (C), for eg. PN 111(C). Available with Captive Pin on request.



* Available with Captive Pin

Steel Quarter Turn Locking Karabiner

Ref. PN 111



* Available with Captive Pin

Stainless Steel Quarter Turn Locking Karabiner

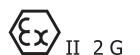
Ref. PN 111SS



* Available with Captive Pin

Steel Screw Locking Karabiner

Ref. PN 112



* Available with Captive Pin

Steel Screw Locking Karabiner with Lock Indicator

Ref. PN 112(LI)



* Available with Captive Pin

Steel Quarter Turn Locking Karabiner

Ref. PN 113



* Available with Captive Pin

Stainless Steel Quarter Turn Locking Karabiner

Ref. PN 113SS

Technical Snapshot

Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 111	Alloy steel	16.0mm	25kN	195.0gm	Silver / Golden yellow galvanized	EN 362:2004 Class B
PN 111SS	Stainless steel	16.0mm	23kN	198.0gm	Polished	
PN 112	Alloy steel	18.0mm	25kN	160.5gm	Silver / Golden yellow galvanized	EN 362:2004 Class B Class M ATEX 2014/34/EU
PN 112(LI)		18.0mm	23kN	158.0gm		EN 362:2004 Class B Class M
PN 113		22.0mm	40kN	236.0gm		EN 362:2004 Class B
PN 113SS	Stainless steel	22.0mm	25kN	235.0gm	Polished	

NEW



* Available with Captive Pin

Steel Triple Action Locking Karabiner

Ref. PN 114

NEW



* Available with Captive Pin

Steel Quarter Turn Locking Karabiner

Ref. PN 115

NEW



* Available with Captive Pin

Steel Triple Action Locking Karabiner

Ref. PN 115T

NEW



* Available with Captive Pin

Stainless Steel Quarter Turn Locking Karabiner

Ref. PN 115SS

NEW



* Available with Captive Pin

Stainless Steel Triple Action Locking Karabiner

Ref. PN 115TSS

NEW



* Available with Captive Pin

Steel Triple Action Locking Karabiner

Ref. PN 119T

NEW



* Available with Captive Pin

Stainless Steel Triple Action Locking Karabiner

Ref. PN 119TSS

NEW



* Available with Captive Pin

Steel Quarter Turn Locking Karabiner

Ref. PN 195

NEW



* Available with Captive Pin

Steel Triple Action Locking Karabiner

Ref. PN 195T

NEW



* Available with Captive Pin

Stainless Steel Quarter Turn Locking Steel Karabiner

Ref. PN 195SS

NEW



* Available with Captive Pin

Stainless Steel Triple Action Locking Karabiner

Ref. PN 195TSS

Technical Snapshot						
Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 114	Alloy steel	22.0mm	40kN	233.4gm	Silver / Golden yellow galvanized	EN 362:2004 Class B
PN 115		19.5mm	23kN	210.0gm		
PN 115T		19.5mm		210.0gm		
PN 115SS	Stainless steel	19.5mm		198.0gm	Polished	
PN 115TSS		19.0mm		195.0gm		
PN 119T	Alloy steel	16.0mm		190.0gm	Silver / Golden yellow galvanized	
PN 119TSS	Stainless steel	16.0mm		185.0gm	Polished	
PN 195	Alloy steel	25.4mm		250.0gm	Silver / Golden yellow galvanized	
PN 195T		25.4mm		250.0gm		
PN 195SS	Stainless steel	25.4mm		265.0gm	Polished	
PN 195TSS		25.4mm		270.0gm		





NEW



Steel Snap Hook
Ref. PN 121

NEW



Steel Swivel Snap Hook
Ref. PN 122

NEW



Steel Swivel Snap Hook with Load Indicator
Ref. PN 123

NEW



Steel Snap Hook
Ref. PN 124

NEW



Steel Scaffold Hook
Ref. PN 131N



Steel Tower Hook
Ref. PN 132



Steel Scaffold Hook
Ref. PN 133



Steel Tower Hook
Ref. PN 134



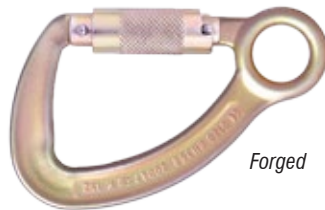
Steel Tower Hook
Ref. PN 135

Technical Snapshot

Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 121	Alloy steel	18.0mm	23kN	205.3gm	Silver/Golden yellow galvanized, shot blasted on request	EN 362:2004 Class T
PN 122		12.0mm		334.9gm		
PN 123		12.0mm		345.5gm		
PN 124		21.0mm		274.0gm		
PN 131N		50.0mm		473.0gm		
PN 132		85.0mm		850.5gm		
PN 133		55.0mm		490.0gm		
PN 134		50.0mm		725.0gm		
PN 135		59.0mm		745.0gm		EN 362:2004 Class B



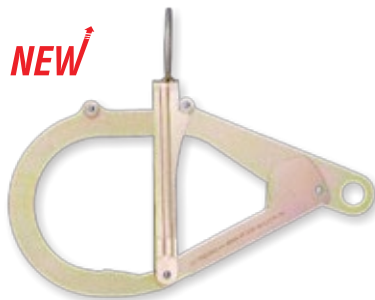
NEW
Steel Pole Strap Snap Hook
Ref. PN 150



Forged
Steel Quarter Turn Locking Hook
Ref. PN 152



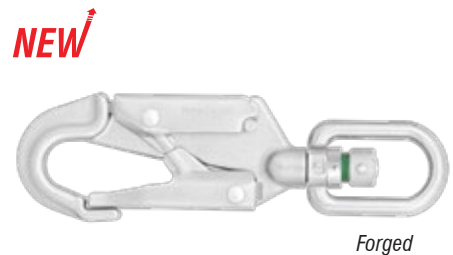
NEW
Steel Triple Action Locking Hook
Ref. PN 152T



NEW
Steel Anchorage Hook
Ref. PN 156



NEW
Steel Standard Snap Hook
Ref. PN 158



NEW
Steel Swivel Snap Hook with Load Indicator
Ref. PN 162



NEW
Stainless Steel Swivel Snap Hook with Load Indicator
Ref. PN 162SS



NEW
Steel Snap Hook
Ref. PN 171



NEW
Steel Triple Action Locking Scaffold Hook
Ref. PN 177

Technical Snapshot						
Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 150	Alloy steel	17.0mm	23kN	259.0gm	Silver/Golden yellow galvanized	EN 362:2004 Class T
PN 152		20.0mm	25kN	278.0gm		
PN 152T		20.0mm	23kN	278.0gm		
PN 156		90.0mm	22kN	880.0gm		EN 795:2012 Type B
PN 158		12.0mm		315.0gm		
PN 162		20.0mm		380.0gm		
PN 162SS	Stainless steel	20.0mm	23kN	365.0gm	Polished	EN 362:2004 Class T
PN 171	Alloy steel	19.0mm		300.0gm	Silver/Golden yellow galvanized	
PN 177	Alloy steel	50.8mm		536.0gm		

► **ANCHORAGE HOOKS**

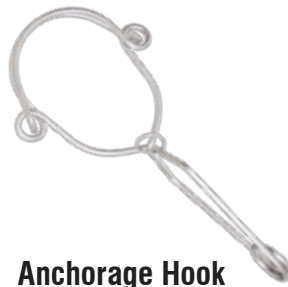


Our range of Stainless Steel Anchorage Hooks offers openings from 75mm to 140mm. Buffed and Polished finish make them unique when compared to other options available in the market.



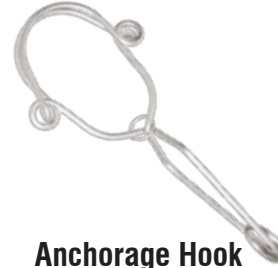
Anchorage Hook

Ref. PN 141



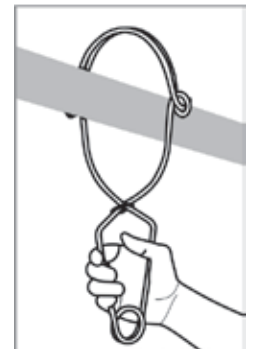
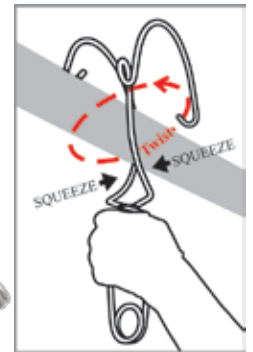
Anchorage Hook

Ref. PN 142



Anchorage Hook

Ref. PN 143



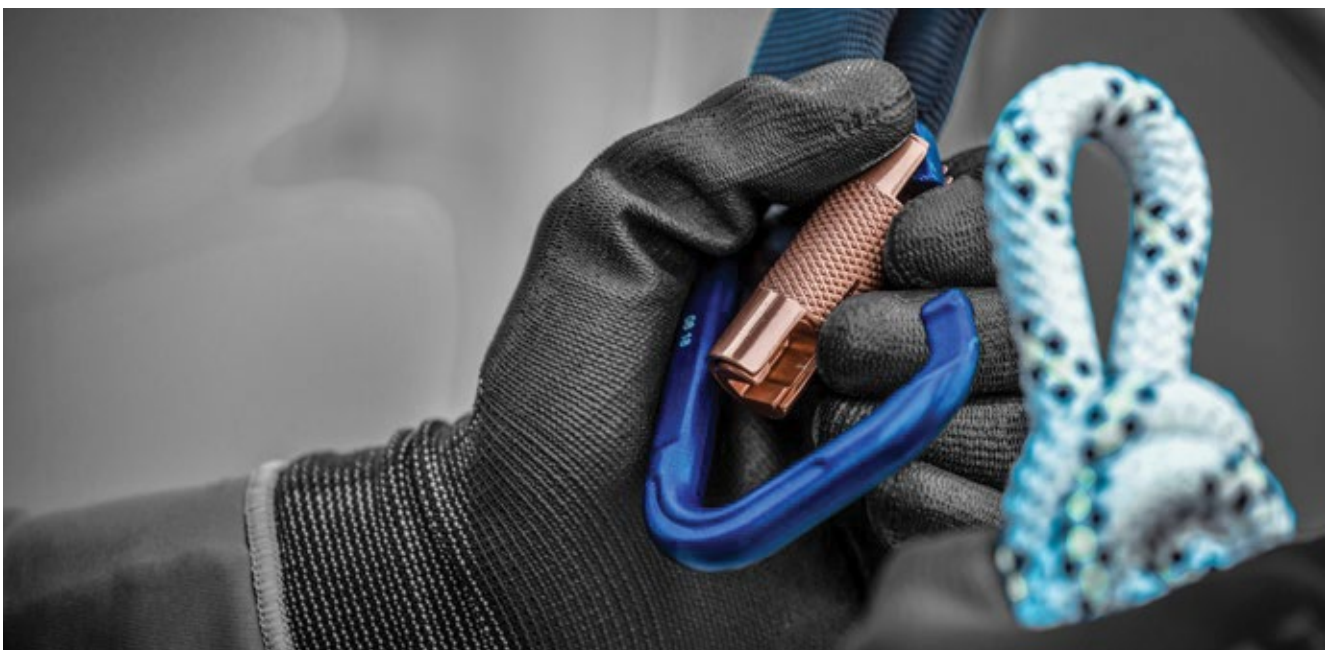
Technical Snapshot						
Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 141	Stainless steel	140.0mm	20kN	362.0gm	Polished	EN 362:2004 Class A
PN 142		110.0mm		315.0gm		
PN 143		75.0mm		306.0gm		

► **ALUMINIUM HOOKS AND KARABINERS**

Where it is important to carry light-weight Karabiners at height to provide maximum comfort and safety to the user, this range of Aluminium Karabiners by KARAM fulfill all the required needs. Manufactured from high-quality Aluminium Alloy, these karabiners come in highly engineered designs, conforming to all the clauses laid down in the EN Norms.



Captive Pin - This is an Additional Pin fitted to the Karabiner to prevent it from disengaging from the Lanyard. The code for the product is written as the Ref. no. of the product along with (C), for eg. PN 116(C). Available with Captive Pin on request.



► ALUMINIUM KARABINERS



NEW



* Available with Captive Pin

Aluminum Screw Locking Karabiner

Ref. PN 116

NEW



* Available with Captive Pin

Aluminum Screw Locking Karabiner with Lock Indicator

Ref. PN 116(LI)



* Available with Captive Pin

Aluminum Screw Locking Karabiner

Ref. PN 116F

NEW



* Available with Captive Pin

Aluminum Quarter Turn Locking Karabiner

Ref. PN 117



* Available with Captive Pin

Aluminum Quarter Turn Locking Karabiner

Ref. PN 117F

NEW



* Available with Captive Pin

Aluminum Triple Action Locking Karabiner

Ref. PN 118



* Available with Captive Pin

Aluminum Triple Action Locking Karabiner

Ref. PN 118F

Technical Snapshot

Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 116	Aluminium alloy	22.0mm	23kN	74.6gm	Natural silver / Coloured galvanized	EN 362:2004 Class B EN 12275:2013 Class B/H UAAA 121
PN 116(LI)		22.0mm	23kN	74.6gm		
PN 116F		22.0mm	23kN	74.6gm		
PN 117		21.0mm	23kN	84.0gm		
PN 117F		21.0mm	23kN	84.0gm		
PN 118		21.0mm	23kN	79.0gm		
PN 118F		21.0mm	23kN	79.0gm		

NEW



Aluminium Screw Locking Snap Hook

Ref. PN 126

NEW



Aluminium Quarter Turn Locking Snap Hook

Ref. PN 127

NEW



Aluminium Triple Action Locking Snap Hook

Ref. PN 128

NEW



Forged

Aluminium Snap Hook

Ref. PN 129



Forged

Aluminium Scaffold Hook

Ref. PN 136

NEW



Forged

Aluminium Scaffold Hook

Ref. PN 138



Aluminium Tower Hook

Ref. PN 139

NEW



Forged

Aluminium Anchorage Hook

Ref. PN 154

NEW



Forged

Aluminium Scaffold Hook

Ref. PN 180

NEW



Forged

Aluminium Scaffold Swivel Hook

Ref. PN 181

Technical Snapshot						
Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Certified to
PN 126	Aluminium alloy	22.0mm	23kN	80.0gm	Natural silver / Coloured anodized	EN 362:2004 Class B EN 12275:2013 Class B/H
PN 127		21.0mm		87.4gm		
PN 128		21.0mm		87.0gm		
PN 129		16.5mm		160.0gm		
PN 136		60.0mm	22kN	480.0gm		EN 362:2004 Class T EN 12275:2013 Class K/T
PN 138		100.0mm	20kN	900.0gm		
PN 139		60.0mm		243.0gm		
PN 154		54.0mm	22kN	480.0gm		EN 362:2004 Class A EN 795:2012 Type B
PN 180		60.0mm	23kN	480.0gm		EN 362:2004 Class T
PN 181		60.0mm		550.0gm		

► DIELECTRIC HOOKS



These Dielectric Hooks are completely electrically insulated and have been specially designed for workers working in conditions where there are possible electrical hazards.



Dielectric Scaffold Hook

Ref. PN 166



Dielectric Snap Hook

Ref. PN 172

Technical Snapshot							
Ref.	Material	Gate Opening	Minimum Breaking Strength	Net Weight	Finish	Minimum Dielectric Resistance	Certified to
PN 166	Specially compounded Polymer with Steel reinforcement	57.0mm	23kN	560.0gm	Moulded	14kV	EN 362:2004 Class T
PN 172		20.0mm		350.0gm			

LANYARDS



A Lanyard is described as the connecting element of a system. The Energy Absorbing Lanyards incorporate a Shock Absorbing element which is capable of limiting the force felt on the body of the worker to less than 6kN. Depending upon the specific usage, Lanyards are classified as follows: Work Positioning Lanyards, Restraint Lanyards, Fall Arrest Lanyards, and Forked Lanyards. KARAM offers an exhaustive range of Lanyards made of Twisted rope, Kernmantle rope or Webbing, and different Connector combinations, as per the needs of the user.



Scan here for a virtual tour of the product

How Does The Energy Absorber In A Lanyard Work?

In the event of a fall, the special webbing inside the Energy Absorber opens up. This opening of the webbing takes up most of the jerk which is felt like an impact when a fall occurs.

Hence, finally very little jerk is felt on the body of the worker. We can therefore imagine that if this Energy Absorber is absent from a fall protection system, the forces which are felt on the body of the worker can be very high and can result in injury.

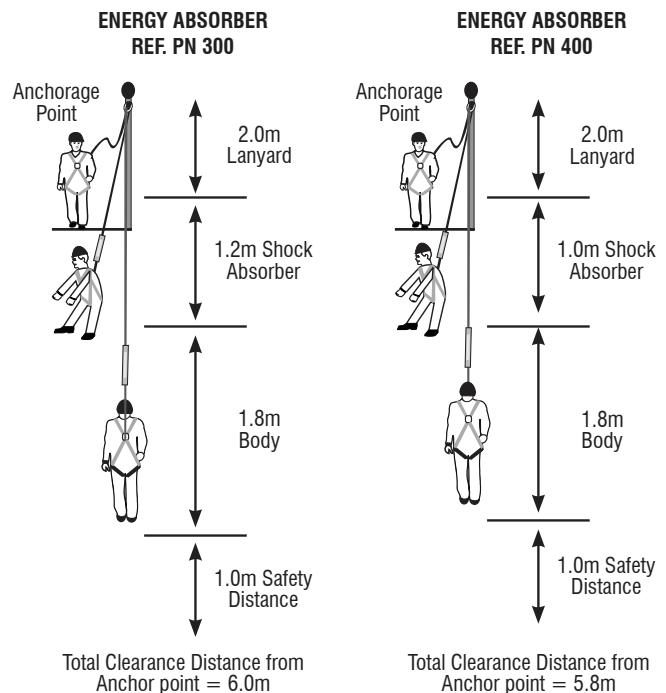
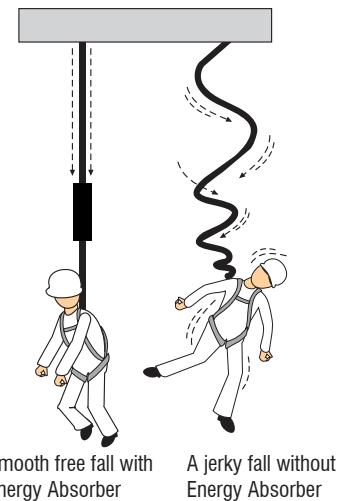
Always use Energy Absorbing Lanyards for fall arrest applications.

What should be the Length of a KARAM Energy Absorbing Lanyard?

The standard maximum length of the Energy Absorbing Lanyard is 2.0m while a Lanyard should be long enough to be user-friendly, it is important to note that it must also be kept as short as possible to minimize the free fall distance. All KARAM Energy Absorbing Lanyards are tested and certified as per EN 355:2002 for their maximum length of 2.0m.

Minimum Fall Clearance Distance Required when using an Energy Absorbing Lanyard?

It is extremely important to know the fall clearance distance while working at a height using the appropriate Fall Protection System. While anchored vertically above the head level, the length of the Lanyard used and the elongation of the Energy Absorber which occurs in the event of a fall become two of the important factors to determine the fall clearance. Always check for the minimum Fall clearance distance so that the risk of hitting an obstacle below is not there. In the worst case, where the user has climbed above the point of anchorage and has a free fall of 4.0m before the Lanyard has been activated, the minimum clearance required is 6.25m below the anchorage.



The Fall clearance is the safe clearance distance calculated from the anchorage point downwards.

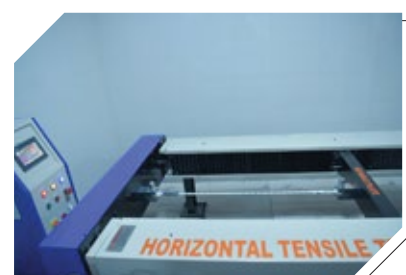
Testing



TESTED & CERTIFIED



STATIC TEST OF WEBBING



STATIC TEST OF ROPE

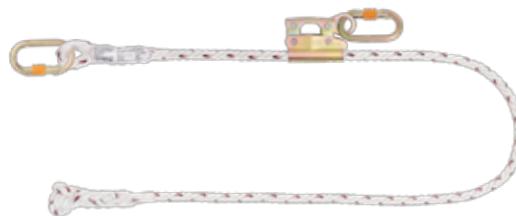
► **WORK POSITIONING LANYARDS**

KARAM offers a range of Work Positioning Lanyards, which can be used by the worker to position himself at a height in a safe and supported manner, and work with both hands free. These Lanyards can be connected to the Lateral D-Rings on the Work Positioning Belts or combination Harnesses and can be easily adjusted for their lengths to suit the application.



WORK POSITIONING LANYARD WITH RING TYPE ADJUSTER

Ref. PN 241



WORK POSITIONING LANYARD WITH GRIP ADJUSTER

Ref. PN 242



WEBBING WORK POSITIONING LANYARD

Ref. PN 243



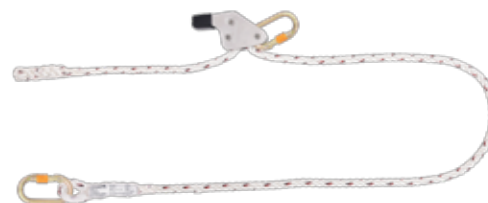
WORK POSITIONING LANYARD WITH RING ADJUSTER

Ref. PN 244



WORK POSITIONING LANYARD WITH GRIP ADJUSTER

Ref. PN 245



WORK POSITIONING LANYARD WITH GRIP ADJUSTER

Ref. PN 246



WORK POSITIONING LANYARD WITH GRIP ADJUSTER

Ref. PN 247



WORK POSITIONING LANYARD WITH GRIP ADJUSTER

Ref. PN 249



WORK POSITIONING LANYARD WITH GRIP ADJUSTER

Ref. PN 249(F)

NEW

NEW



All Work Positioning Lanyards are also available with Protective Covering Sleeve to protect the rope from abrasion when the Lanyard is used around a structure in the event of work-positioning. The code for the product is written as the Ref. No. of the product along with (PR), for e.g. PN 241 (PR)

Technical Snapshot

Ref.	Rope/ Webbing	Dia/ Width	Rope Grab / Adjuster	Attachment Type	Max. Length	Min. Breaking Strength	Certified to
PN 241	Twisted Rope	14mm	Ring type Adjuster	Steel Karabiner PN 112 at both the ends for attachment	2.0m	15kN	EN 358:2018
PN 242	Twisted Rope	14mm	Alloy Steel Non Openable Rope Grab RG 03				
PN 243	Polyester Webbing	33mm	Ring Type Adjuster				
PN 244	Kernmantle Rope	12mm	Ring Type Adjuster				
PN 245	Kernmantle Rope	12mm	Alloy Steel Non Openable Rope Grab RG 03				
PN 246	Twisted Rope	14mm	Alloy Steel Non Openable Rope Grab RG 04				EN 358:2018
PN 247	Kernmantle Rope	12mm	Aluminium Rope Grab Openable Blocker RG 07				EN 358:2018
PN 249	Kernmantle Rope	12mm	Openable Aluminium Alloy Rope Grab RG 09				EN 358:2018
PN 249(F)	Kernmantle Rope	12mm	Non-Openable Aluminium Alloy Rope Grab RG 09(F)				EN 358:2018



▶ RESTRAINT LANYARDS

Restraint Lanyards are a part of the Restraint System needed at height. These lanyards prevent the user from reaching the edge and hence prevent a potential fall from occurring. Since no fall occurs in a "Fall Restraint System", the Restraint Lanyards do not have any shock absorption element incorporated in them. It is therefore mandatory to ensure that **Fall Restraint Lanyards are never used for fall arrest.**



RESTRAINT TWISTED ROPE LANYARDS

- Made up of 12mm dia Polyamide Twisted Rope.
- The spliced end is protected with a strong transparent protective covering sleeve, which not only protects the splicing but also makes the splicing visible for easy inspection prior to use.
- The loops at the end are protected by an abrasion resistant thimble, which prevents the rope from being damaged by the metallic contact of the connector.
- The rope also has a colored tracer strand (age indicator) which loses its colour in due course of time, to show that the Lanyard is now unfit for further use.
- They are available in lengths 1.0m, 1.5m, 1.8m, and 2.0m.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 354:2010.



Ref.	Attachment End	Anchorage End
PN 201	Loop	Loop
PN 202	Loop	Ref. PN 112
PN 203	Ref. PN 112	Ref. PN 112
PN 204	Loop	Ref. PN 121
PN 205	Ref. PN 121	Ref. PN 121
PN 206N	Loop	Ref. PN 131N
PN 206(A)	Loop	Ref. PN 136
PN 207	Ref. PN 112	Ref. PN 121
PN 208N	Ref. PN 112	Ref. PN 131N
PN 208(A)	Ref. PN 112	Ref. PN 136
PN 209N	Ref. PN 121	Ref. PN 131N
PN 209(A)	Ref. PN 121	Ref. PN 136

RESTRAINT WEBBING LANYARDS (44MM)

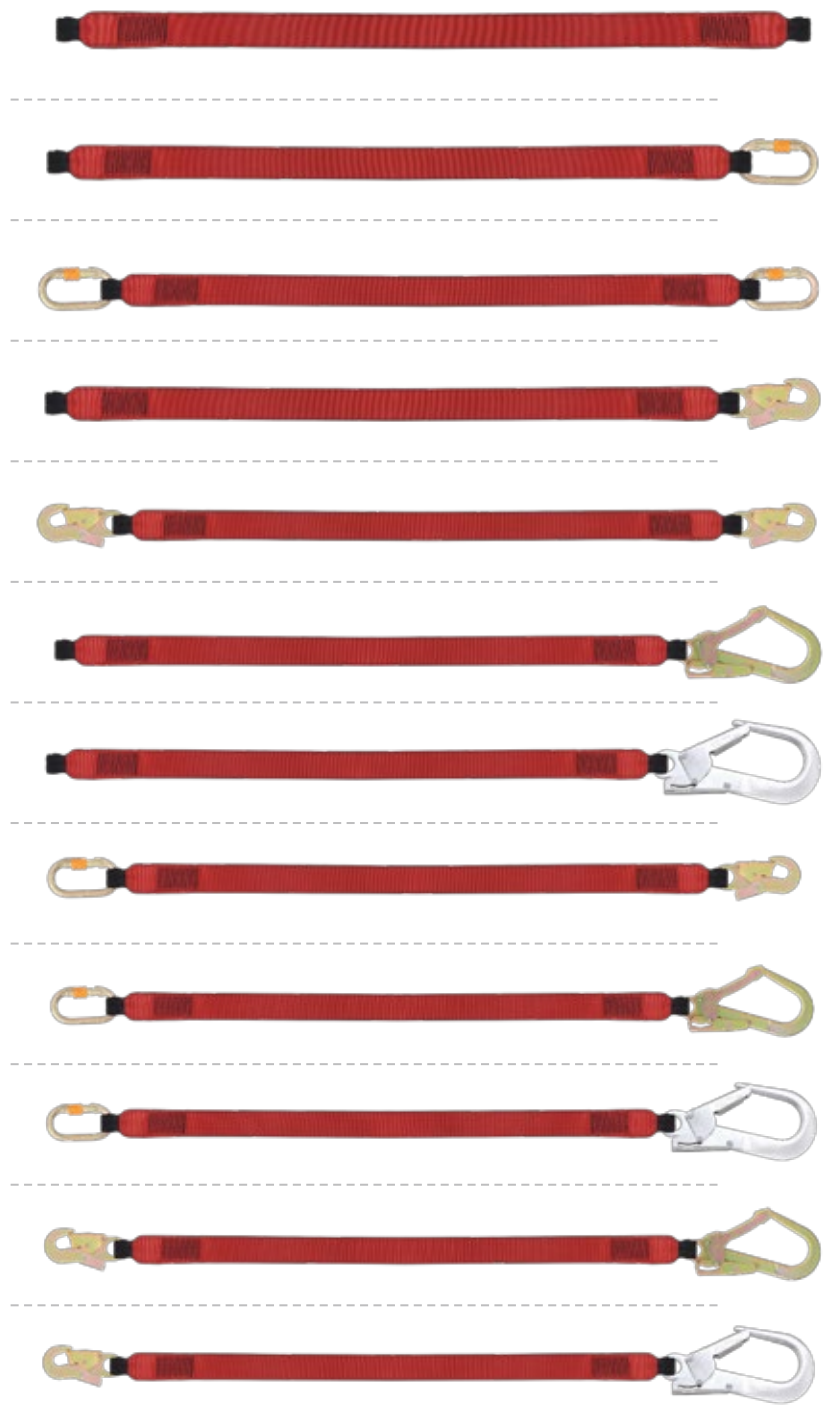
- Made up of 44mm wide polyester webbing.
- The loops at the ends are protected by an abrasion resistant covering. This prevents the webbing from being damaged by the metallic contact of the connector.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 354:2010.



EN 354:2010

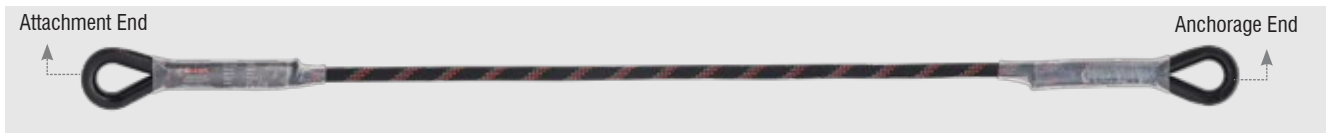


Ref.	Attachment End	Anchorage End
PN 221	Loop	Loop
PN 222	Loop	Ref. PN 112
PN 223	Ref. PN 112	Ref. PN 112
PN 224	Loop	Ref. PN 121
PN 225	Ref. PN 121	Ref. PN 121
PN 226N	Loop	Ref. PN 131N
PN 226(A)	Loop	Ref. PN 136
PN 227	Ref. PN 112	Ref. PN 121
PN 228N	Ref. PN 112	Ref. PN 131N
PN 228(A)	Ref. PN 112	Ref. PN 136
PN 229N	Ref. PN 121	Ref. PN 131N
PN 229(A)	Ref. PN 121	Ref. PN 136



RESTRAINT KERNMANTLE ROPE LANYARDS

- Made up of Kernmantle Rope of 11mm dia.
- They are cross stitched and protected with a strong transparent covering sleeve, which not only protects the ends but also makes the stitches visible for easy inspection prior to use.
- The loops at the end are protected by an abrasion resistant thimble, which prevents the rope from being damaged by the metallic contact of the connector.
- The rope also has a coloured tracer strand which loses its colour in due course of time, indicating that the Lanyard is now unfit for further use.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 354:2010.



Ref.	Attachment End	Anchorage End	
PN 281	Loop	Loop	
PN 282	Loop	Ref. PN 112	
PN 283	Ref. PN 112	Ref. PN 112	
PN 284	Loop	Ref. PN 121	
PN 285	Ref. PN 121	Ref. PN 121	
PN 286N	Loop	Ref. PN 131N	
PN 286(A)	Loop	Ref. PN 136	
PN 287	Ref. PN 112	Ref. PN 121	
PN 288N	Ref. PN 112	Ref. PN 131N	
PN 288(A)	Ref. PN 112	Ref. PN 136	
PN 289N	Ref. PN 121	Ref. PN 131N	
PN 289(A)	Ref. PN 121	Ref. PN 136	

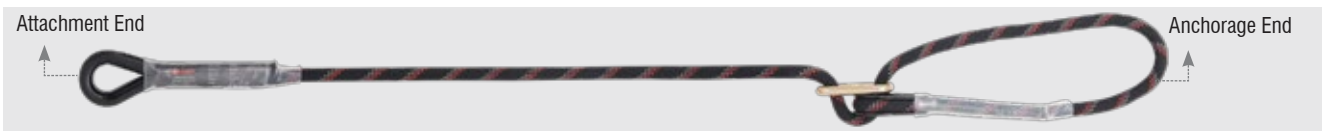


NEW RESTRAINT KERNMANTLE ROPE ADJUSTABLE LANYARDS

KARAM introduces a wide range of Restraint Kernmantle Rope Adjustable Lanyards which are perfectly meant for the user who needs to change the length of his Lanyard to suit the application.



- Made up of Kernmantle Rope of 11mm dia.
- Consists of a metal adjuster to adjust the length of the Lanyard.
- They are cross-stitched and are protected by a strong transparent covering sleeve, which not only protects the ends, but also makes the stitches visible for easy inspection before use
- The rope also has a coloured tracer strand which loses its colour in due course of time, indicating that the Lanyard is now unfit for further use.
- Maximum adjustable length up to 2.0m.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 354:2010.



Ref.	Attachment End	Anchorage End	
PN 281(AD)	Loop	Loop	
PN 282(AD)	Loop	Ref. PN 112	
PN 283(AD)	Ref. PN 112	Ref. PN 112	
PN 284(AD)	Loop	Ref. PN 121	
PN 285(AD)	Ref. PN 121	Ref. PN 121	
PN 286N(AD)	Loop	Ref. PN 131N	
PN 286(A)(AD)	Loop	Ref. PN 136	
PN 287(AD)	Ref. PN 112	Ref. PN 121	
PN 288N(AD)	Ref. PN 112	Ref. PN 131N	
PN 288(A)(AD)	Ref. PN 112	Ref. PN 136	
PN 289N(AD)	Ref. PN 121	Ref. PN 131N	
PN 289(A)(AD)	Ref. PN 121	Ref. PN 136	

RESTRAINT EXPANDABLE LANYARDS

- These Lanyards are ideal for use in conditions where there are chances of the user tipping over the Lanyard.
- Made up of 44mm wide polyester tubular webbing.
- The Elastic nature of the Lanyard reduces its actual effective length thereby reducing trip hazards.
- All KARAM Lanyards are also supplied with any other hook on special request.
- Relaxed Length = 1.5m, Expanded Length = 2.0m.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 354:2010.



Ref.	Attachment End	Anchorage End	
PN 291	Loop	Loop	
PN 292	Loop	Ref. 112	
PN 293	Ref. PN 112	Ref. PN 112	
PN 294	Loop	Ref. PN 121	
PN 295	Ref. PN 121	Ref. PN 121	
PN 296N	Loop	Ref. PN 131N	
PN 296(A)	Loop	Ref. PN 136	
PN 297	Ref. PN 112	Ref. PN 121	
PN 298N	Ref. PN 112	Ref. PN 131N	
PN 298(A)	Ref. PN 112	Ref. PN 136	
PN 299N	Ref. PN 121	Ref. PN 131N	
PN 299(A)	Ref. PN 121	Ref. PN 136	

► **RESTRAINT FORKED LANYARDS**

KARAM Forked Restraint Lanyards offers the facility to move in all directions while remaining safely anchored at all times. The Lanyards are suited only for purpose of restraint, and should not be used for Fall Protection since they do not have any Energy Absorber.



NEW



Ref. PN 231N

NEW



Ref. PN 231(A)

NEW



Ref. PN 251N

NEW



Ref. PN 251(A)

Technical Snapshot

Ref.	Made of	Length	Dia/Width	Attachment Elements	Certified to
PN 231N	Kernmantle Rope	1.5m, 1.8m, 2.0m	11mm	PN 112 at one end and two Steel Scaffold Hooks PN 131N at other ends.	EN 354:2010
PN 231(A)				PN 112 at one end and two Aluminium Rebar Hooks PN 136 at other ends.	
PN 251N	Polyamide Twisted Rope	1.5m, 1.8m, 2.0m	12mm	PN 112 at one end and two Steel Scaffold Hooks PN 131N at other ends.	
PN 251(A)				PN 112 at one end and two Aluminium Rebar Hooks PN 136 at other ends.	



Ref. PN 261N



Ref. PN 261(A)



Technical Snapshot					
Ref.	Made of	Length	Dia/Width	Attachment Elements	Certified to
PN 261N	Polyester webbing	1.5m 1.8m 2.0m	44mm	PN 112 at one end and two Steel Scaffold Hooks PN 131N at other end.	EN 354:2010
PN 261(A)				PN 112 at one end and two Aluminium Rebar Hooks PN 136 at other end.	

► **ENERGY ABSORBER**

- The Energy Absorber consists of a special white inner polyamide webbing that absorbs the arresting forces in the event of a fall.
- The coloured webbing serves as a backup in PN 300.
- The clear protective covering helps in easy and fast visual inspection.



ENERGY ABSORBER

Ref. PN 300

- Made up of 44mm wide webbing and is shrink-wrapped.
- It reduces the impact of a fall to less than 6kN and is certified to EN 355:2002.
- The minimum fall clearance distance required when using this Energy Absorber for a 2.0m Lanyard is=6.0m.
- Openable Energy Absorber cover PR03 is also available as an option to protect PN 300 against dirt and abrasion due to friction.



SMALL ENERGY ABSORBER

Ref. PN 400

- Smaller and lighter in weight, PN 400 is made up of 35mm wide webbing and is shrink-wrapped.
- It reduces the impact of a fall to less than 6kN and is certified to EN 355:2002.
- KARAM range of Fall Arrest Lanyards can also be provided with this Energy Absorber PN 400.
- The minimum fall clearance distance required when using this Energy Absorber for 2.0m lanyard is=5.8m.

► ENERGY ABSORBING TWISTED ROPE LANYARDS



- Made up of Polyamide Twisted Rope of 12mm dia.
- The spliced end is protected with a strong transparent covering sleeve, which not only protects the splicing but also makes the splicing visible for easy inspection before use.
- Loops at the end are protected by an abrasion resistant thimble, which prevents the rope from being damaged by the metallic contact of the connector.
- The rope also has a coloured tracer strand (age indicator) which loses its colour in due course of time, to show that the Lanyard is now unfit for further use.
- Available in length 1.0m, 1.5m, 1.8m, and 2.0m.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 355:2002.



Ref. No. if with Energy Absorber PN 300	Ref. No. if with Energy Absorber PN 400	Attachment End	Anchorage End
PN 301	PN 301(S)	Loop	Loop
PN 302	PN 302(S)	Loop	Ref. PN 112
PN 303	PN 303(S)	Ref. PN 112	Ref. PN 112
PN 304	PN 304(S)	Loop	Ref. PN 121
PN 305	Not Applicable	Ref. PN 121	Ref. PN 121
PN 306N	PN 306(S)N	Loop	Ref. PN 131N
PN 306(A)	PN 306(S)(A)	Loop	Ref. PN 136
PN 307	PN 307(S)	Ref. PN 112	Ref. PN 121
PN 308N	PN 308(S)N	Ref. PN 112	Ref. PN 131N
PN 308(A)	PN 308(S)(A)	Ref. PN 112	Ref. PN 136
PN 309N	Not Applicable	Ref. PN 121	Ref. PN 131N
PN309(A)	Not Applicable	Ref. PN 121	Ref. PN 136
PN 310	PN 310(S)	Loop	Ref. PN 141
PN 311	PN 311(S)	Ref. PN 112	Ref. PN 141
PN 312	Not Applicable	Ref. PN 121	Ref. PN 141



ENERGY ABSORBING 44MM WEBBING LANYARDS

- Made up of 44 mm wide polyester webbing from high tenacity polyester yarn having a different configuration of connectors on the ends.
- The loops at the ends are protected by an abrasion resistant covering. This prevents the webbing from being damaged by the metallic contact of the connector.
- Available in lengths 1.0m, 1.5m, 1.8m, and 2.0m.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 355:2002 and AS/NZS 1891.1:2020



EN 355:2002



AS/NZS 1891.1:2020



Ref. No. if with Energy Absorber PN 300	Ref. No. if with Energy Absorber PN 400	Attachment End	Anchorage End	
PN 321	PN 321(S)	Loop	Loop	
PN 322	PN 322(S)	Loop	Ref. PN 112	
PN 323	PN 323(S)	Ref. PN 112	Ref. PN 112	
PN 324	PN 324(S)	Loop	Ref. PN 121	
PN 325	Not Applicable	Ref. PN 121	Ref. PN 121	
PN 326N	PN 326(S)N	Loop	Ref. PN 131N	
PN 326(A)	PN 326(S)(A)	Loop	Ref. PN 136	
PN 327	PN 327(S)	Ref. PN 112	Ref. PN 121	
PN 328N	PN 328(S)N	Ref. PN 112	Ref. PN 131N	
PN 328(A)	PN 328(S)(A)	Ref. PN 112	Ref. PN 136	
PN 329N	Not Applicable	Ref. PN 121	Ref. PN 131N	
PN329(A)	Not Applicable	Ref. PN 121	Ref. PN 136	
PN 330	PN 330(S)	Loop	Ref. PN 141	
PN 331	PN 331(S)	Ref. PN 112	Ref. PN 141	
PN 332	Not Applicable	Ref. PN 121	Ref. PN 141	

ENERGY ABSORBING KERNMANTLE ROPE LANYARDS

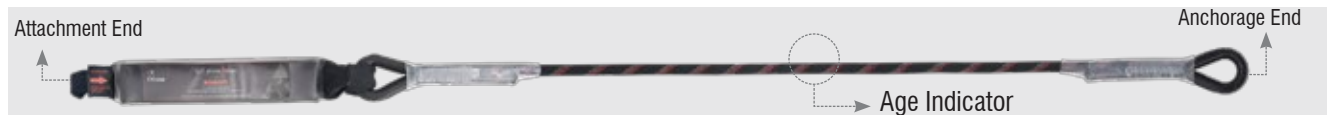
- Made from high-quality Kernmantle Rope of dia 11mm.
- They are cross-stitched and are protected with a strong transparent covering sleeve. This not only protects the ends, but also makes the stitches visible for easy inspection before use.
- The loops at the end are protected by an abrasion resistant thimble. This prevents the rope from being damaged by the metallic contact of the connector.
- The rope also has a coloured tracer strand (age Indicator) which loses its colour in due course of time, indicating that the Lanyard is now unfit for further use.
- Available in length 1.0m, 1.5m, 1.8m, and 2.0m.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 355:2002 and AS/NZS 1891.1:2020.



EN 355:2002



AS/NZS 1891.1:2020



Ref. No. if with Energy Absorber PN 300	Ref. No. if with Energy Absorber PN 400	Attachment End	Anchorage End
PN 381	PN 381(S)	Loop	Loop
PN 382	PN 382(S)	Loop	Ref. PN 112
PN 383	PN 383(S)	Ref. PN 112	Ref. PN 112
PN 384	PN 384(S)	Loop	Ref. PN 121
PN 385	Not Applicable	Ref. PN 121	Ref. PN 121
PN 386N	PN 386(S)N	Loop	Ref. PN 131N
PN 386(A)	PN 386(S)(A)	Loop	Ref. PN 136
PN 387	PN 387(S)	Ref. PN 112	Ref. PN 121
PN 388N	PN 388(S)N	Ref. PN 112	Ref. PN 131N
PN 388(A)	PN 388(S)(A)	Ref. PN 112	Ref. PN 136
PN 389N	Not Applicable	Ref. PN 121	Ref. PN 131N
PN389(A)	Not Applicable	Ref. PN 121	Ref. PN 136



NEW ENERGY ABSORBING KERNMANTLE ROPE ADJUSTABLE LANYARDS

KARAM introduces a wide range of Energy Absorbing Kernmantle Rope Adjustable Lanyards, which are perfectly meant for the user who needs to change the length of his Lanyard to suit the application.

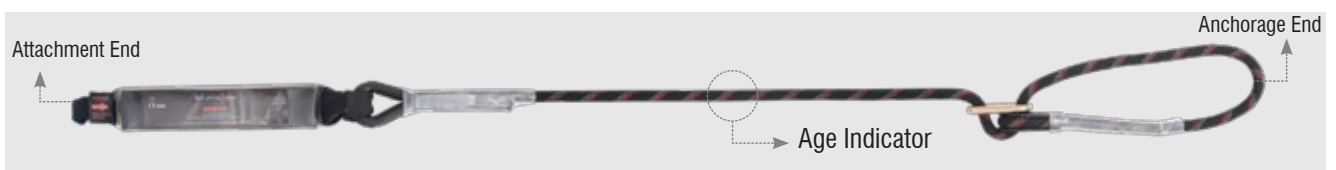
- Made up of Kernmantle Rope of 11mm dia.
- Consists of metal adjuster to adjust the length of the Lanyard.
- They are cross stitched and are protected with a strong transparent covering sleeve, which not only protects the ends but also makes the stitches visible for easy inspection before use.
- Maximum adjustable length up to 2.0m.
- The rope also has a coloured tracer strand which loses its colour in due course of time, indicating that the Lanyard is now unfit for further use.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 355:2002 and AS/NZS 1891.1:2020.



EN 355:2002



AS/NZS 1891.1:2020



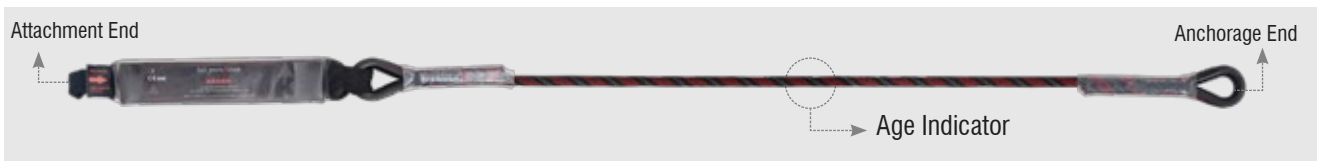
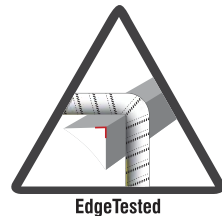
Ref. No. if with Energy Absorber PN 300	Ref. No. if with Energy Absorber PN 400	Attachment End	Anchorage End	
PN 381(AD)	PN 381(S)(AD)	Loop	Loop	
PN 382(AD)	PN 382(S)(AD)	Loop	Ref. PN 112	
PN 383(AD)	PN 383(S)(AD)	Ref. PN 112	Ref. PN 112	
PN 384(AD)	PN 384(S)(AD)	Loop	Ref. PN 121	
PN 385(AD)	Not Applicable	Ref. PN 121	Ref. PN 121	
PN 386N(AD)	PN 386(S)N(AD)	Loop	Ref. PN 131N	
PN 386(A)(AD)	PN 386(S)(A)(AD)	Loop	Ref. PN 136	
PN 387(AD)	PN 387(S)(AD)	Ref. PN 112	Ref. PN 121	
PN 388N(AD)	PN 388(S)N(AD)	Ref. PN 112	Ref. PN 131N	
PN 388(A)(AD)	PN 388(S)(A)(AD)	Ref. PN 112	Ref. PN 136	
PN 389N(AD)	Not Applicable	Ref. PN 121	Ref. PN 131N	
PN389(A)(AD)	Not Applicable	Ref. PN 121	Ref. PN 136	

NEW ➔ ENERGY ABSORBING KERNMANTLE EDGE SAFE LANYARDS

KARAM offers an exclusive Edge Safe Range of Lanyards particularly meant for protecting the user when working near SHARP EDGES especially on terrace roofs.

- Made from high-quality Kernmantle Rope of dia 11mm.
- They are cross-stitched and protected with a strong transparent covering sleeve. This not only protects the ends but also makes the stitches visible for easy inspection before use.
- The loops at the end are protected by an abrasion resistant thimble. This prevents the rope from being damaged by the metallic contact of the connector.
- The rope also has a coloured tracer strand which loses its colour in due course of time, indicating that the Lanyard is now unfit for further use.
- Available in lengths 1.0m, 1.5m, 1.8m, and 2.0m.
- All KARAM Lanyards are also supplied with any other hook on special request.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 355:2002 and VG 11 RfU CNB/P/11.074.

CE
EN 355:2002
VG 11 RfU CNB/P/11.074



Ref. No. if with Energy Absorber PN 300	Ref. No. if with Energy Absorber PN 400	Attachment End	Anchorage End
PN 381(SE)	PN 381(S)(SE)	Loop	Loop
PN 382(SE)	PN 382(S)(SE)	Loop	Ref. PN 112
PN 383(SE)	PN 383(S)(SE)	Ref. PN 112	Ref. PN 112
PN 384(SE)	PN 384(S)(SE)	Loop	Ref. PN 121
PN 385(SE)	Not Applicable	Ref. PN 121	Ref. PN 121
PN 386N(SE)	PN 386N(S)(SE)	Loop	Ref. PN 131N
PN 386(A)(SE)	PN 386(A)(S)(SE)	Loop	Ref. PN 136
PN 387(SE)	PN 387(S)(SE)	Ref. PN 112	Ref. PN 121
PN 388N(SE)	PN 388N(S)(SE)	Ref. PN 112	Ref. PN 131N
PN 388(A)(SE)	PN 388(A)(S)(SE)	Ref. PN 112	Ref. PN 136
PN 389N(SE)	Not Applicable	Ref. PN 121	Ref. PN 131N
PN 389(A)(SE)	Not Applicable	Ref. PN 121	Ref. PN 136



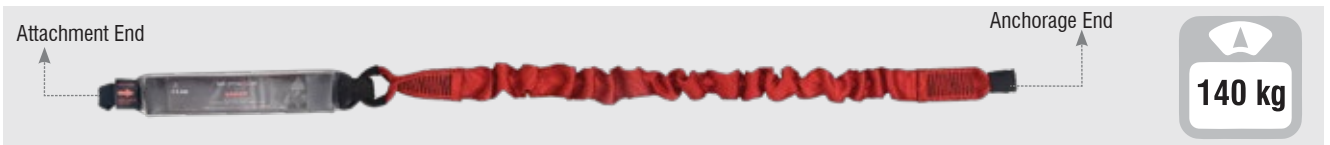
NEW ➔ ENERGY ABSORBING EXPANDABLE WEBBING LANYARDS

- These Lanyards are ideal for use in conditions where there chances of the user tripping over the Lanyard.
- The Elastic nature of the Lanyard reduces the actual effective length of the Lanyard thereby reducing trip hazards.
- The Lanyards are made with 44mm wide elasticated webbing incorporated for contracting property.
- The Loops at the ends are protected by an abrasion resistant covering. This prevents the webbing from being damaged by metallic contact of the connector.
- KARAM offers a wide range of Webbing Lanyards, having different configurations of connectors on the ends.
- All KARAM Lanyards are also supplied with any other hook on special request.
- Relaxed Length < 1.5m, Expanded Length = 2.0m.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 355:2002, VG 11/RfU CNB/P/11.062 and VG11/RfU CNB/P/11.074.

EN 355:2002

 VG11/RfU CNB/P/11.062

 VG11/RfU CNB/P/11.074



Ref. No. if with Energy Absorber PN 300	Ref. No. if with Energy Absorber PN 400	Ref. No. if with 140kgs Energy Absorber PN 300(140)	Attachment End	Anchorage End	
PN 391	PN 391(S)	PN 391(140)	Loop	Loop	
PN 392	PN 392(S)	PN 392(140)	Loop	Ref. PN 112	
PN 393	PN 393(S)	PN 393(140)	Ref. PN 112	Ref. PN 112	
PN 394	PN 394(S)	PN 394(140)	Loop	Ref. PN 121	
PN 395	PN 395(S)	PN 395(140)	Ref. PN 121	Ref. PN 121	
PN 396N	PN 396N(S)	PN 396N(140)	Loop	Ref. PN 131N	
PN 396(A)	PN 396(A)(S)	PN 396(A)(140)	Loop	Ref. PN 136	
PN 397	PN 397(S)	PN 397(140)	Ref. PN 112	Ref. PN 121	
PN 398N	PN 398N(S)	PN 398N(140)	Ref. PN 112	Ref. PN 131N	
PN 398(A)	PN 398(A)(S)	PN 398(A)(140)	Ref. PN 112	Ref. PN 136	
PN 399N	NA	PN 399N(140)	Ref. PN 121	Ref. PN 131N	
PN 399(A)	NA	PN 399(A)(140)	Ref. PN 121	Ref. PN 136	

NEW ► ENERGY ABSORBING EXPANDABLE WEBBING EDGE SAFE LANYARDS

KARAM introduces an exclusive Edge Safe Range of Expandable Webbing Lanyards for reducing trip hazards and providing protection to the user when working near sharp edges.

- These Lanyards are ideal for use in conditions where there chances of the user tripping over the Lanyard. The Elastic nature of the Lanyard reduces the actual effective length of the Lanyard thereby reducing trip hazards.
- The Lanyards are made with 44mm wide elasticated webbing incorporated for contracting property.
- The Loops at the ends are protected by an abrasion resistant covering. This prevents the webbing from being damaged by metallic contact of the connector
- KARAM offers a wide range of Webbing Lanyards, having different configuration of connectors on the ends.
- All KARAM Lanyards are also supplied with any other hook on special request.
- Relaxed Length < 1.5m, Expanded Length = 2.0m.
- All Lanyards with different combinations of connectors mentioned below are individually certified as per EN 355:2002, EN 354:2010, VG 11/RfU CNB/P/11.062 and VG 11/RfU CNB/P/11.074.



Ref. No. if with Energy Absorber PN 300	Ref. No. if with 140kgs Energy Absorber PN 300(140)	Attachment End	Anchorage End	
PN 391(SE)	PN 391(SE)(140)	Loop	Loop	
PN 392(SE)	PN 392(SE)(140)	Loop	Ref. PN 112	
PN 393(SE)	PN 393(SE)(140)	Ref. PN 112	Ref. PN 112	
PN 394(SE)	PN 394(SE)(140)	Loop	Ref. PN 121	
PN 395(SE)	PN 395(SE)(140)	Ref. PN 121	Ref. PN 121	
PN 396N(SE)	PN 396N(SE)(140)	Loop	Ref. PN 131N	
PN 396(A)(SE)	PN 396(A)(SE)(140)	Loop	Ref. PN 136	
PN 397(SE)	PN 397(SE)(140)	Ref. PN 112	Ref. PN 121	
PN 398N(SE)	PN 398N(SE)(140)	Ref. PN 112	Ref. PN 131N	
PN 398(A)(SE)	PN 398(A)(SE)(140)	Ref. PN 112	Ref. PN 136	
PN 399N(SE)	PN 399N(SE)(140)	Ref. PN 121	Ref. PN 131N	
PN 399(A)(SE)	PN 399(A)(SE)(140)	Ref. PN 121	Ref. PN 136	

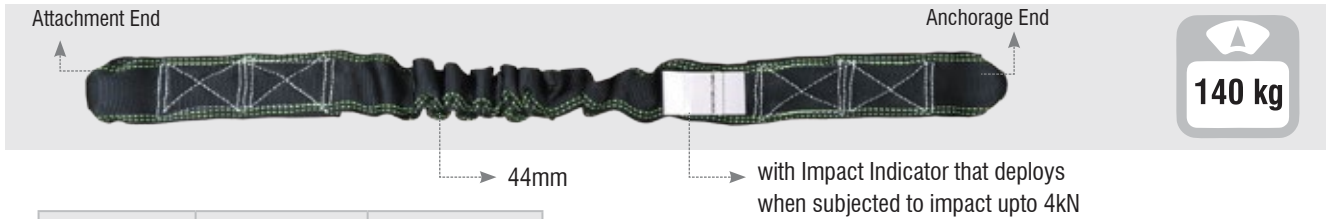
INTERNAL SHOCK ABSORBING EXPANDABLE LANYARDS

- These Lanyards come with Energy Absorption feature incorporated within their core, they do not require any additional Energy Absorber Pack; hence, they are lighter in weight.
- These Lanyards are ideal for use in conditions where there are chances of the user tripping over the Lanyard. The Elastic nature of the Lanyard reduces the actual effective length of the Lanyard thereby reducing trip hazards.
- KARAM offers a wide range of Internal Shock Absorbing Expandable Lanyards, having different configurations of connectors on the ends.
- All KARAM Lanyards are also supplied with any other hook on special request.
- Relaxed Length = 1.4m to 1.6m, Expanded Length = 2.0m.
- All Lanyards with different combinations of connectors of connectors mentioned below are individually certified as per EN 355:2002, EN 354:2010 and VG 11 RfU CNB/P/11.062.

EN 355:2002

 EN 354:2010

 VG 11 RFU CNB/P/11.062



Ref.	Attachment End	Anchorage End
PN 391(IS)	Loop	Loop
PN 392(IS)	Loop	Ref. PN 112
PN 393(IS)	Ref. PN 112	Ref. PN 112
PN 394(IS)	Loop	Ref. PN 121
PN 395(IS)	Ref. PN 121	Ref. PN 121
PN 396N(IS)	Loop	Ref. PN 131N
PN 396(A)(IS)	Loop	Ref. PN 136
PN 397(IS)	Ref. PN 112	Ref. PN 121
PN 398N(IS)	Ref. PN 112	Ref. PN 131N
PN 398(A)(IS)	Ref. PN 112	Ref. PN 136
PN 399N(IS)	Ref. PN 121	Ref. PN 131N
PN 399(A)(IS)	Ref. PN 121	Ref. PN 136



► **FORKED LANYARDS WITH ENERGY ABSORBER**

KARAM Forked Lanyards come in Twisted Ropes, Kernmantle Ropes and in 44mm wide polyester webbing. These Lanyards offer the facility to move in all directions while remaining safely anchored at all times.

CE
 EN 355:2002
 VG11/RfU CNB/P/11.063



Ref. PN 341N



Ref. PN 341(A)



Ref. PN 341N(AD)



Ref. PN 341(A)(AD)



Ref. PN 351N



Ref. PN 351(A)



Ref. PN 352



Ref. PN 361N



Ref. PN 361(A)

Technical Snapshot						
Ref.	Made of	Length	Dia/Width	Attachment Elements	Certified to	
PN 341N	Kernmantle Rope	1.5m 1.8m 2.0m	11mm	PN 112 with Energy Absorber PN 300 at one end and two Steel Scaffold Hooks PN 131N at other ends.	EN 355:2002 VG11 RfU CNB/P/11.063 (additional Static Strength Test)	
PN 341(A)				PN 112 with Energy Absorber PN 300 at one end and two Aluminium Hooks PN 136 at other ends.		
PN 341N(AD)				PN 112 with Energy Absorber PN 300 at one end and two Steel Scaffold Hooks PN 131N at other ends.		
PN 341(A)(AD)				PN 112 with Energy Absorber PN 300 at one end and two Aluminium Hooks PN 136 at other ends.		
PN 351N	Twisted Polyamide Rope	12mm	PN 112 with Energy Absorber PN 300 at one end and two Steel Scaffold Hooks PN 131N at other ends.			
PN 351(A)			PN 112 with Energy Absorber PN 300 at one end and two Aluminium Hooks PN 136 at other ends.			
PN 352			PN 112 with Energy Absorber PN 300 at one end and two Steel Snap Hooks PN 121 at other ends.			
PN 361N	Wide Polyester Webbing	44mm	PN 112 with Energy Absorber PN 300 at one end and two Steel Scaffold Hooks PN 131N at other ends.			
PN 361(A)			PN 112 with Energy Absorber PN 300 at one end and two Aluminium Hooks PN 136 at other ends.			

► FORKED LANYARDS WITH ENERGY ABSORBER

These Lanyards reduce trip hazards and provide the facility to move in all directions while safely remaining anchored at all times.



AS/NZS 1891.1:2020

EN 355:2002

VG11/RfU CNB/P/11.062

VG11/RfU CNB/P/11.063



Ref. PN 371N



Ref. PN 371(A)



Technical Snapshot						
Ref. No. if with Energy Absorber PN 300	Ref. No. if with 140kgs Energy Absorber PN 300(140)	Made of	Length	Dia/Width	Attachment Elements	Certified to
PN 371N	PN 371N(140)	Tubular Webbing	Relaxed Length : 1.4m to 1.6m Expanded Length :2.0m	44mm	PN 112 with Energy Absorber PN 300 at one end and two Steel Scaffold Hooks PN 131N at other ends.	EN 355:2002 VG11/RfU CNB/P/11.062 VG11/RfU CNB/P/11.063 (additional Static Strength Test) AS/NZS 1891.1:2020
PN 371(A)	PN 371(A)(140)				PN 112 with Energy Absorber PN 300 at one end and two Aluminium Hooks PN 136 at other ends.	

➤ **SHARP EDGE TESTED FORKED LANYARDS**

KARAM INTRODUCES Edge Safe Tested Forked Lanyards specifically meant for users working on sharp edges. These Lanyards offer the facility to move in all directions while remaining safely anchored at all times.



EN 355:2002
VG11/RfU CNB/P/11.063
VG11 RFU CNB/P/11.074

NEW



Ref. PN 341N(SE)

NEW



Ref. PN 341(A)(SE)

Technical Snapshot

Ref.	Made of	Length	Dia/Width	Attachment Elements	Certified to
PN 341N(SE)	Kernmantle Rope	1.5m	11mm	PN 112 with Energy Absorber PN 300 at one end and two Steel Scaffold Hooks PN 131N at other ends.	EN 355:2002 +VG11 RfU CNB/P/11.063 (additional Static Strength Test) +VG11 RfU CNB/P/11.074
PN 341(A)(SE)		1.8m 2.0m			



EN 355:2002
EN 354:2010
VG 11 RFU CNB/P/11.062
VG 11 RFU CNB/P/11.063
VG 11 RFU CNB/P/11.074

NEW



Ref. PN 371N(SE)140



NEW



Ref. PN 371(A)(SE)140



Technical Snapshot

Ref. No. if with Energy Absorber PN 300	Ref. No. if with 140kgs Energy Absorber PN 300(140)	Made of	Length	Dia/Width	Attachment Elements	Certified to
PN 371N(SE)	PN 371N(SE)140	Tubular Webbing	Relaxed Length: 1.4m - 1.6m Expanded Length: 2.0m	44mm	PN 112 at one end and two Steel Scaffold Hooks PN 131N at other ends.	EN 355:2002 EN 354: 2010 VG11 RfU CNB/P/11.062 VG11 RfU CNB/P/11.063 VG11 RfU CNB/P/11.074
PN 371(A)(SE)	PN 371(A)(SE)140				PN 112 at one end and two Aluminium Rebar Hooks PN 136 at other ends.	

► **EXPANDABLE INTERNAL SHOCK ABSORBING TWIN LANYARDS**

These Lanyards are ideal for use in conditions where there are chances of the user tripping over the Lanyard. The Elastic nature of the Lanyard reduces the actual effective length of the Lanyard there by reducing trip hazards.

CE
 EN 355:2002
 EN 354:2010
 VG 11 RfU CNB/P/11.062



Ref. PN 371N(IS)



Ref. PN 371(A)(IS)



Technical Snapshot					
Ref.	Made of	Length	Dia/ Width	Attachment Elements	Certified to
PN 371N(IS)	Tubular Webbing	Relaxed Length: 1.4m - 1.6m Expanded Length: 2.0m	44mm	PN 112 at one end and two Steel Scaffold Hooks PN 131N at other ends.	EN 355:2002 EN 354: 2010 VG 11 RfU CNB/P/11.062
PN 371(A)(IS)				PN 112 at one end and two Aluminium Rebar Hooks PN 136 at other ends.	





KARAM offers a range of Anchorage devices in Webbing, Steel Rope and Metal, which can be easily installed over a variety of structures to provide safe anchorage points for working at heights where needed. All these Anchorages comply with the latest European Standard EN 795:2012.

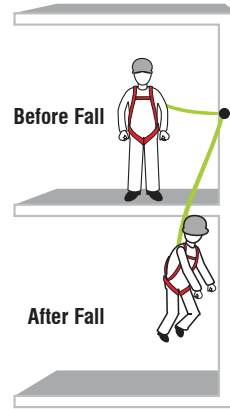
Points To Consider When Anchoring Yourself To Any Anchorage Point

1

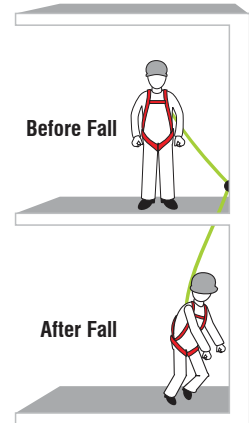
Always make sure that the Anchorage used (whether a scaffolding bar, or the bar of a ladder, or an Anchorage Connector) is strong enough to hold you in case you are subjected to a fall. Technically, it should be capable of withstanding a static load of more than **12 kN for 3 minutes**.

2

You should Anchor yourself to the point which lies either to your shoulder level, or higher than that. If the Anchorage point is below this, then the distance of the fall gets increased, thereby exposing you to risk.



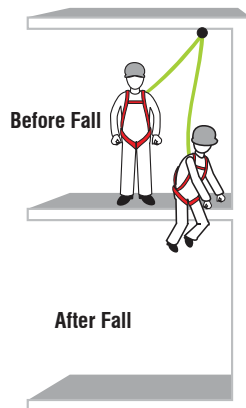
Fall when anchored on the side (Fall Factor 1)



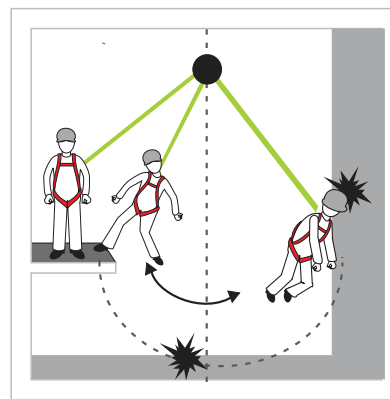
Fall when anchored at lower level (Fall Factor 2)

3

Try to Anchor yourself to a point that is more vertically above than to your side. If the Anchorage is on the side, you may experience a risky swing fall in the event of a fall, and may injure yourself by hitting an obstacle.



Fall when anchored at a level above the head (Fall Factor 0)



You could be injured if anchored on the side, due to the pendulum effect.

Testing



TESTED & CERTIFIED



DYNAMIC STRENGTH TEST
TYPE A ANCHOR



STATIC TEST OF
TYPE B ANCHOR

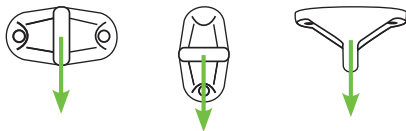
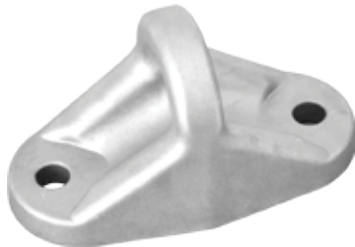
According to EN 795:2012, Anchor devices have been classified into various types, Type A, B, C, D and E. KARAM offers a range of Anchor devices which fall under various such types.

► **TYPE A ANCHOR (AS PER EN 795:2012)**

This type is an Anchor device with one or more stationary anchor points that require a structural anchor or fixing element to be fixed to the structure. This type of anchor is usually small, and may or may not be removed from the supporting structure due to being fixed, such as with rivets, studs, screws, welds or resin bonding.



Scan here for a virtual tour of the product



Tested to withstand load from all the 3-axes

ALUMINIUM POINT ANCHOR

Ref. SA 09

- Compact and highly corrosion resistant.
- Can be bolted on any structure with the help of 2 screw-bolts.
- Tested to withstand the impact load in all the 3 axes, providing the highest level of Safety.
- It can be bolted on concrete structures that have a minimum width of 125mm and metal structures using suitable fasteners.

► **CONFORMS TO**

- EN 795:2012 Type A
- ANSI Z359.1-2007

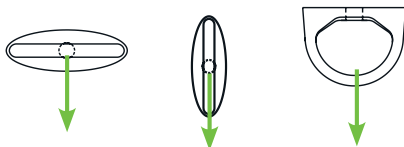


ANSI Z359.1-2007

NEW



Scan here for a virtual tour of the product



Tested to withstand load from all the 3-axes

STEEL POINT ANCHOR

Ref. SA 10

A forged single Point Steel Anchor designed to be fixed on walls, ceiling, roof-tops, and steel structures.

► **CONFORMS TO**

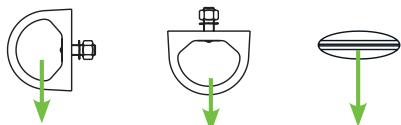
- EN 795:2012 Type A
- TS 16415:2013 Type A (for up to 4 users)
- ANSI Z359.18:2017 Type A

► **CERTIFIED TO**

AS/NZS 5532:2013



AS/NZS 5532:2013 ANSI Z359.18:2017 Type A



Tested to withstand load from all the 3-axes

STEEL POINT ANCHOR

Ref. SA 10A

This forged Steel Anchorage Point is another device that can be bolted on any structure without the help of any additional fastener. Special lengths of studs can also be provided on request.

► **CONFORMS TO**

- EN 795:2012 Type A
- TS 16415:2013 Type A (for up to 4 users)

► **CERTIFIED TO**

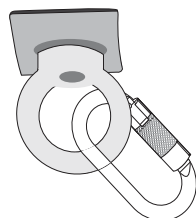
AS/NZS 5532:2013



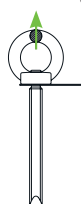
AS/NZS 5532:2013



Scan here for a virtual tour of the product



Tested direction of loading



STAINLESS STEEL CHEMICAL POINT ANCHOR

Ref. SA 12

- For fastening into concrete.
- Is used with adhesive capsule 10 HVU M12 x 110 code: 256693.
- Drilling dia recommended for installation - 14mm and depth-110mm.

➤ **CONFORMS TO**
EN 795:2012 Type A

➤ **CERTIFIED TO**
AS/NZS 5532:2013



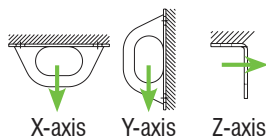
AS/NZS 5532:2013

Technical Snapshot

Ref.	Material	Minimum Breaking Strength	Finish	Net Weight
SA 09	Aluminium Alloy	23kN	Natural Silver / Colored Anodized	308.0gm
SA 10	Alloy Steel		Silver / Golden Yellow Galvanized	380.0gm
SA 10A	Alloy Steel			435.0gm
SA 12	Stainless Steel	12kN	Polished	300.0gm ± 10.0gm

➤ FLANGE ANCHORS

KARAM introduces the Flange Anchors, specifically designed to be fixed on walls, ceilings, roof tops, or steel structures.



Ref. SA 41

The Anchorage provided by its eye-bolt has been tested to withstand the required load of 23kN from all the 3 axes, thus providing the highest level of safety.

➤ **CONFORMS TO**
EN 795:2012 Type A

➤ **CERTIFIED TO**
AS/NZS 5532:2013



AS/NZS 5532:2013

Ref. SA 42-12

Can be used with chemical as well as in mechanical nut bolt fastener in predefined hole of dia 14mm through a drilling depth of 95mm.

➤ **CONFORMS TO**
EN 795:2012 Type A and ANSI Z359.18-2017

➤ **CERTIFIED TO**
AS/NZS 5532:2013



ANSI Z359.1-2007 AS/NZS 5532:2013



Scan here for a virtual tour of the product



NEW



Tested direction of loading

Technical Snapshot

Ref.	Material	Minimum Breaking Strength	Finish	Process	Net Weight
SA 41	Stainless Steel	23kN	Polished	Stamped	311.0gm ± 10.0gm
SA 42-12		12kN			60.0gm ± 5.0gm

▶ TYPE B ANCHOR (AS PER EN 795:2012)

This type is an Anchor device, with one or more stationary Anchor points, which does not require a fixing element to be fixed to the structure. They are designed to be easily transported, as they normally require minimal installation or can be dismantled and moved quickly.



BEAM ANCHOR

Ref. SA 08

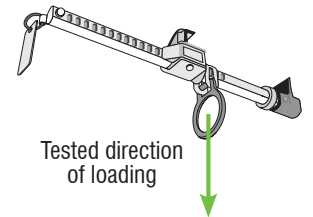


BEAM ANCHOR

Ref. SA 08M



Scan here for a virtual tour of the product



▶ GENERAL FEATURES

- Is a temporary transportable Anchor device, which provides an Anchorage Point while being attached safely onto a beam, without penetrating it.
- The Beam Anchor arm has flanges made of brass, and is adjustable to suit different beam sizes.
- Once installed, the D-ring on the aluminum bar of the Beam Anchor can be used for connection with a variety of connectors for suitable Anchorage.

▶ SA 08 AND SA 08M CERTIFIED TO

- EN 795:2012 Type B and ATEX 2014/34/EU
- SA 08 is also certified to AS/NZS 5532:2013

▶ SA 08 AND SA 08M CONFORMS TO

- ANSI Z359.18-2017 Type A



AS/NZS 5532:2013



ATEX 2014/34/EU



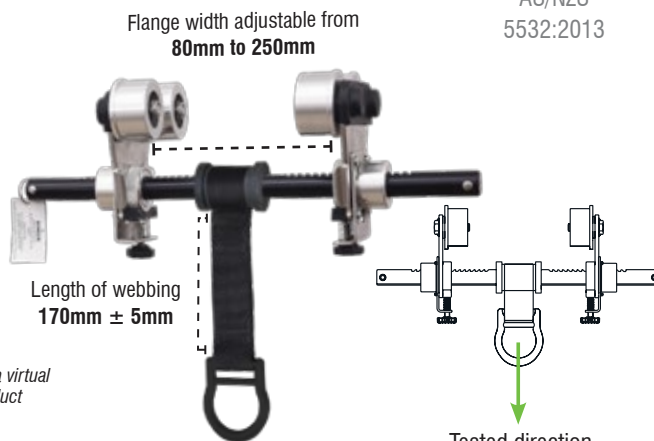
ANSI Z359.18-2017 Type A



EN 795:2012 Type B



Scan here for a virtual tour of the product



BEAM ANCHOR TROLLEY

Ref. SA 15

▶ GENERAL FEATURES

- Provides a movable Anchorage Point using the length of the beam to which it is mounted, to move along with the user.
- Highly corrosion resistant and easy to install.
- Comes with adjustable flanges for use on different beam sizes.
- This trolley allows continuous safe Anchorage by allowing the Anchor Point to travel across the length of the beam, along with the user.
- The wheels of the trolley provide extremely smooth movement along the beam over which it is mounted.

BEAM ANCHOR TROLLEY

Ref. SA 15A

▶ SA 15 AND SA 15A CERTIFIED TO

- EN 795:2012 Type B
- SA 15 is also certified to AS/NZS 5532:2013 and ATEX 2014/34/EU

▶ CONFORMS TO

- SA 15 conforms to ANSI Z359.1-2007
- SA 15A conforms to ANSI Z359.18-2017 Type A



AS/NZS 5532:2013



ATEX 2014/34/EU



ANSI Z359.1-2007
ANSI Z359.18-2017 Type A



EN 795:2012 Type B



Consists of electrically insulated rollers for safe working in conditions where there are chances of possible electrical hazards.
Minimum di-electric resistance: 30kV

DI-ELECTRIC BEAM ANCHOR TROLLEY

Ref. SA 15B

GENERAL FEATURES

- Provides a movable Anchorage Point using the length of the beam to which it is mounted, to move along with the user.
- Highly corrosion resistant and easy to install.
- Comes with adjustable flanges for use on different beam sizes
- This trolley provides continuous safe anchorage by allowing the Anchor Point to travel across the length of the beam, along with the user.
- The wheels of the Trolley provide extremely smooth movement along the beam over which it is mounted.

CERTIFIED TO

EN 795:2012 Type B

CONFORMS TO

Conforms to ANSI Z 359.1:2007



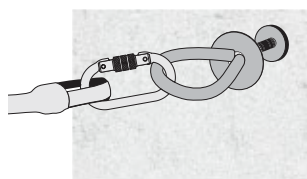
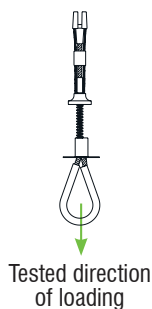
ANSI Z 359.1:2007



EN 795:2012 Type B

Technical Snapshot

Ref.	Material	Minimum Breaking Strength	Flange Width	Weight
SA 08	Aluminum Alloy and Brass	23kN	90mm to 340mm	1.87kg ± 0.01kg
SA 08M			75mm to 150mm	1.56kg ± 0.01kg
SA 15	Aluminum and Stainless steel		80mm to 250mm	4.20kg ± 0.01kg
SA 15A			3.90kg ± 0.01kg	
SA 15B			3.70kg ± 0.01kg	



Scan here for a virtual tour of the product

CONCRETE ANCHOR

Ref. SA 16

GENERAL FEATURES

- Is extremely easy to install using a single hand, without the help of any tools or fasteners, through a pre-defined hole of dia 18-19mm, through a drilling depth of 110mm.
- The flanges are pulled in when the eye of the anchor is pulled, allowing the anchor to pass through the hole. When the eye is released, these flanges fan out along the outer part of the concrete wall, and hold the anchor in its place.

CERTIFIED TO

- EN 795:2012 Type B
- AS/NZS 5532:2013
- ATEX 2014/34/EU



ATEX 2014/34/EU



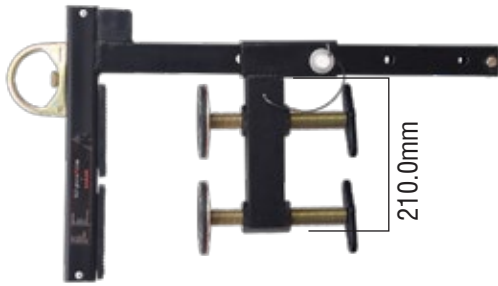
AS/NZS 5532:2013



EN 795:2012 Type B

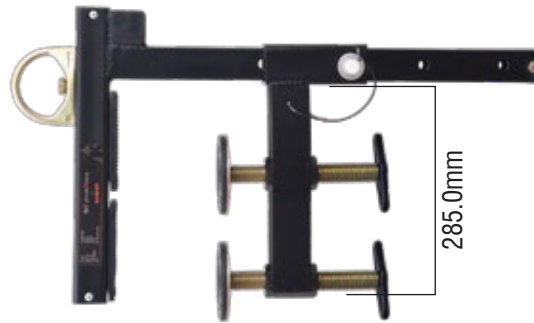
Technical Snapshot

Ref.	Material	Minimum Breaking Strength	Weight
SA 16	Galvanized wire rope of dia 6.0mm	12kN	150gm ± 10gm



PARAPET ANCHOR

Ref. SA 11



PARAPET ANCHOR WITH EXTENDED MOVABLE ARM

Ref. SA 11B



Scan here for a virtual tour of the product

GENERAL FEATURES

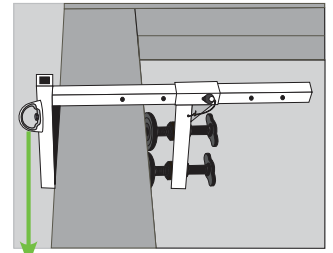
- Provides a safe Anchorage Point on Parapets and facades for use on various structures.
- The soft part on the inner side of the adjustable flanges also ensures that the parapet is not damaged.
- **Ref. SA 11B** consists of extended movable arm which allows installation on the Parapet with mounting on outer edge.

CERTIFIED TO

EN 795:2012 Type B

CONFORMS TO

ANSI Z359.18-2017 Type A



Tested direction of loading



ANSI Z359.18-2017 Type A

EN 795:2012 Type B

Technical Snapshot				
Ref.	Material	Minimum Breaking Strength	Flange Width	Weight
SA 11	Alloy Steel with ED coated Black	23kN	60mm to 360mm	9.0kg ± 0.1kg
SA 11B				9.56kg ± 0.1kg

GIRDER AND CONCRETE STEEL ANCHOR

Ref. SA 13

Ref. SA 13A



Scan here for a virtual tour of the product

GENERAL FEATURES

- Girder Anchor SA 13 can be installed on a steel structure whereas Concrete Steel Anchor SA 13A can be installed on steel structure and concrete wall. Both these Point Anchors can be installed easily with one hand without the use of any tools and fasteners.
- Both SA 13 and SA 13A are provided with green indicator bands which become visible when the installation is complete to indicate fool-proof safety.

SA 13 AND SA 13A CERTIFIED TO

- EN 795:2012 Type B
- SA 13 also certified to AS/NZS 5532:2013 and ATEX 2014/34/EU

SA 13 AND SA 13A CONFORMS TO

ANSI Z359.18-2017 Type A



Tested direction of loading



ATEX 2014/34/EU



AS/NZS 5532:2013



ANSI Z359.18-2017 Type A



EN 795:2012 Type B

Technical Snapshot					
Ref.	Material	Minimum Breaking Strength	Preformed Hole of Dia	Thickness of Structure	Weight
SA 13	Stainless Steel and Alloy Steel	23 kN	21mm to 30mm	upto 40mm	550gms ± 10gm
SA 13A				upto 340mm	1.25kg ± 0.01kg



Scan here for a virtual tour of the product

EDGE ANCHOR

Ref. SA 20

Introducing the uniquely designed KARAM Edge Anchor, which allows multi-depth adjustment to suit varying roof cladding profiles.

▶ GENERAL FEATURES

- Designed for a single user only, this Edge Anchor is robust, light in weight, collapsible and portable for easy transport, storage and usage.
- With an energy absorbing arm with fall indicator, it provides additional safety to the user while working.

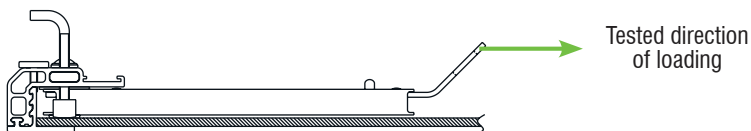
▶ CERTIFIED TO

- EN 795:2012 Type B
- AS/NZS 5532:2013

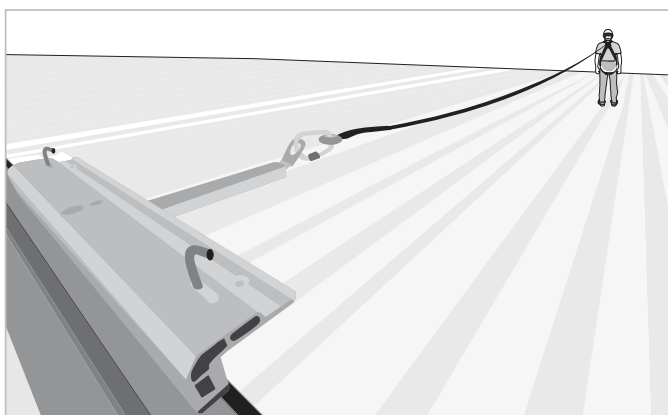


AS/NZS 5532:2013

EN 795:2012 Type B



Technical Snapshot				
Ref.	Material	Minimum Breaking Strength	Range of Cladding Profile	Weight
SA 20	Aluminum Alloy	15kN	Upto 30mm	3.0kg ± 0.1kg



▶ CONTAINER ANCHOR POST

Container Anchor post designed by KARAM is meant to provide a temporary anchor for working on top of 20ft and 40ft shipping containers.



Ref. SA 48

Ref. SA 48(SW)



Scan here for a virtual tour of the product

▶ GENERAL FEATURES

- In addition to its use as a stand alone anchor post, Container Anchor Post can also be used to form a Horizontal Lifeline over the top of container depending upon the requirement of work to be done.
- Comes with a side lock and tag line arrangement for easy and secure installation by one person only.
- Consists of a side handle with a special grip for easy carrying and safe transportation.
- Can be easily removed without damaging the container.
- SA 48 is compatible with KARAM Horizontal Lifelines PN 3000, PN 3001 and PN 3002.
- Has Four Holes on the anchor plate, which can be used for making connections as anchor points.
- SA 48(SW) consists of one swivel eye for anchorage / making connections.

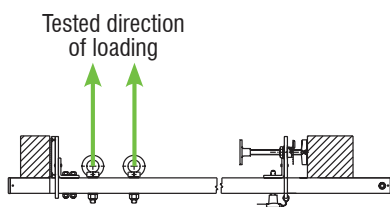
▶ CERTIFIED TO

EN 795:2012 Type B

Technical Snapshot				
Ref.	Material	Minimum Breaking Strength	Weight	Weight
SA 48	Alloy steel	15kN	ED coated (Black)	15.83 kgs
SA 48(SW)				14.53 kgs

▶ DOOR AND WINDOW ANCHORAGES

Ref. PN 802



Scan here for a virtual tour of the product

▶ GENERAL FEATURES

- Provides a non-penetrating Anchor Point that can be installed by just compressing it against the door or window frame, jamming itself between the two vertical sides.
- Light in weight, easy to store and easy to install without any tools or drilling.
- Arms of the Door Anchor are adjustable, enabling installation on door/window frames of width from 60 cm to 125 cm.
- Is provided with two separate eye bolts, enabling anchorage by two personnel at the same time.
- Certified for 2 users.
- Is provided with door anchor bag Ref. BG 34

▶ CERTIFIED TO

- EN 795:2012 Type B
- TS 16415:2013 Type B (for upto 2 users)

Technical Snapshot			
Ref.	Material	Minimum Breaking Strength	Weight
PN 802	Aluminium Alloy	15kN	4.85 kg

➤ **CROSS ARM AND CONCRETE ANCHOR STRAPS**

KARAM provides a wide range of Cross Arm and Concrete Anchor Straps of various configurations and lengths that can be altered as per the requirement.



AS/NZS 5532:2013 EN 795:2012 Type B



➤ **CROSS ARM STRAP**
Ref. PN 803



➤ **CROSS ARM STRAP**
Ref. PN 804



➤ **CROSS ARM STRAP**
Ref. PN 807



➤ **CROSS ARM STRAP**
Ref. PN 807(20)



➤ **CROSS ARM STRAP**
Ref. PN 808



➤ **CROSS ARM STRAP**
Ref. PN 809



➤ **CONCRETE ANCHOR STRAP**
Ref. PN 805



➤ **CONCRETE ANCHOR STRAP**
Ref. PN 806

Technical Snapshot					
Ref.	Material	Length	Minimum Breaking Strength	Attachments	Certified to
PN 803	44 mm wide Polyester webbing	1.2m or as requested	18kN for 3 minutes	D-Ring at one end and textile loop at the other end	EN 795:2012 Type B AS/NZS 5532:2013
PN 804		1m, 1.5m and 2m or as requested		Has a D-Ring on both the ends	EN 795:2012 Type B AS/NZS 5532:2013 EN 566:2017
PN 807	25 mm wide Polyester webbing	0.6m, 1.0m, 1.5m or as requested		NA	AS/NZS 5532:2013 EN 566:2017 Conforms to EN 795:2012 Type B
PN 807(20)	20 mm wide Polyester webbing				
PN 808	44 mm wide Polyester webbing	0.5m or as requested		Loops at both the ends	AS/NZS 5532:2013 EN 566:2017 Conforms to EN 795:2012 Type B
PN 809	50 mm wide Polyester webbing	1.0m, 1.5m and 2.0m or as requested			
PN 805	44 mm wide Polyester webbing	1.07m or as requested		D-Ring at one end and textile loop at the other end. Provided with a polyester covering on the load-bearing face of the webbing, for abrasion resistance.	EN 795:2012 Type B AS/NZS 5532:2013
PN 806		1.0m, 1.5m and 2.0m or as requested			

➤ ANCHORAGE WIRE ROPE SLINGS

Anchorage Wire Rope Slings are highly resistant to wear and can be used around edged structures.



ANCHORAGE STEEL WIRE ROPE SLING

Ref. PN 813



ANCHORAGE STAINLESS STEEL WIRE ROPE SLING

Ref. PN 814



Technical Snapshot					
Ref.	Material	Length	Minimum Breaking Strength	Attachments	Certified to
PN 813	PVC coated G.I wire rope of dia 8.0mm	1.0m, 1.5m, 1.8m and 2.0m or as requested	23kN	Steel thimbles at both the ends.	EN 795:2012 Type B ATEX 2014/34/EU
PN 814	Stainless steel wire rope of dia 8.0mm				EN 795:2012 Type B

► TELESCOPIC POLE SYSTEM

Ref. PN 815

Telescopic Pole is a perfect solution to create overhead anchors at unreachable heights. It is light in weight, made up of fibre glass, and can be effectively used to install an anchorage point from a distance.

- The total weight of the Telescopic Pole assembly without the hook is approx. 4.6kg, hence can be easily carried.
- Working reach with extension: 10.5m and without extension: 9.5m.
- Dielectric resistance: 30kV
- Comes with an option of using either the steel anchorage hook PN 156, or the Aluminum Anchorage Hook PN 154, to anchor at the required distance.

► HEAD

Ref. PN 815(01)

- Length: 240.0mm
- Weight: 185gms



► HANGING HOOK

Ref. PN 815(03)

- Material: Alloy Steel, plastic moulded
- Weight: 190gms



- Molded nut with Screw pin with a ring on head to enable easy adjustment and to restrict unnecessary movement during usage.



► EXTENSION SECTION

Ref. PN 815(02)

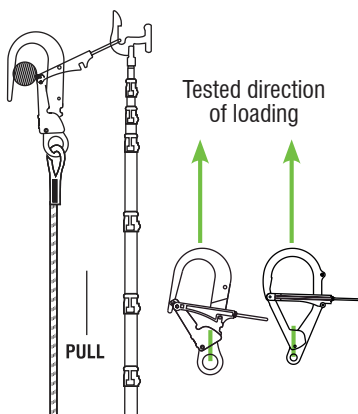
- Length: 1.0m
- Weight: 425gms



► TELESCOPIC POLE

Ref. PN 815(04)

- Material: Fiberglass
- Maximum length: 7.95m
- Minimum length: 1.95m
- Weight: 3.80kg



► ALUMINUM ANCHORAGE HOOK

Ref. PN 154

- Material: Aluminum Alloy
- Opening: 54.0mm
- Minimum Breaking Strength: 22kN
- Weight: 480gms
- Finish: Natural Silver / Coloured Anodized
- Certified to: EN 362:2004 Class A; EN 795:2012 Type B



► STEEL ANCHORAGE HOOK

Ref. PN 156

- Material: Alloy Steel
- Opening: 90.0mm
- Minimum Breaking Strength: 22kN
- Weight: 880gms
- Finish: Silver / Golden Yellow Galvanized
- Certified to: EN 795:2012 Type B



Scan here for a virtual tour of the product

► TELESCOPIC POLE FOR RESCUE

This Rescue Pole is made from fiber glass and is extremely light in weight. Can be used as an extension to rescue a fall victim without descending to the victim for rescue.

NEW

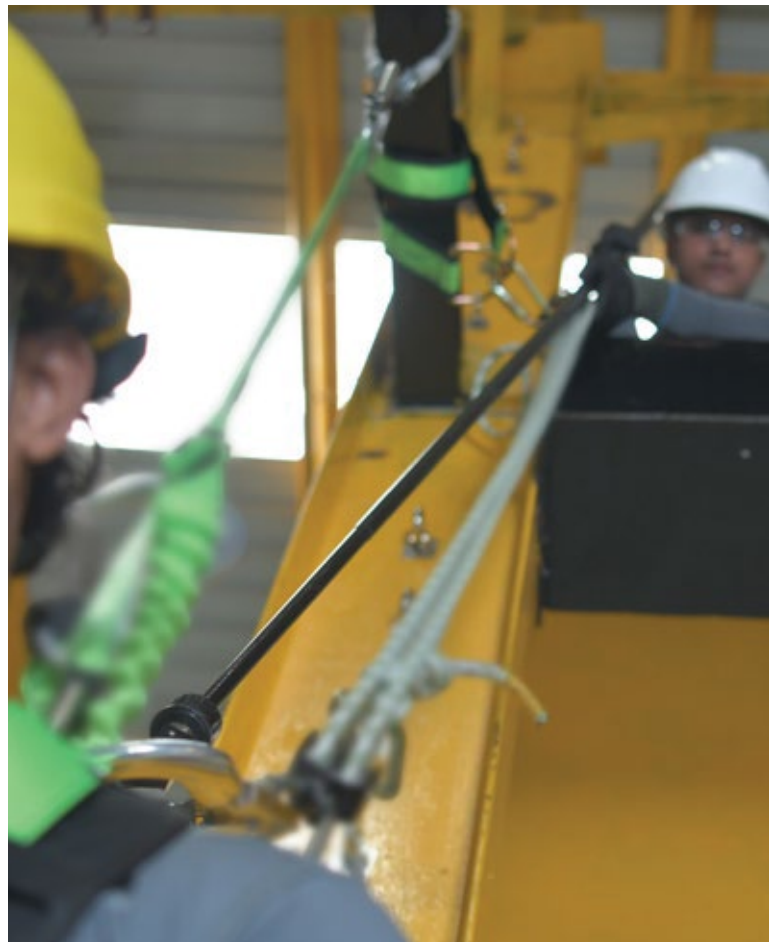
► GENERAL FEATURES

- Portable and easy to carry
- Comes with an option of Aluminium Rebar Hook PN 136 to anchor at the required distance.



Ref. PN 821N

Ref. PN 821L



Technical Snapshot			
Ref.	Minimum Length	Minimum Expanded Length	Weight
PN 821N	0.75m	3.0m	739 gms
PN 821L		3.5m	840 gms

CHOOSING THE CORRECT ANCHORAGE SOLUTION

S. No.	Work Area	Hazard	Mobile Anchorage Solution	Fixed Anchorage Solution
1	Ladder	Fall due to vertical climbing up and down	Rope Grabs on flexible (textile) Anchorage Lines	<ul style="list-style-type: none"> FPS on Rigid Cable Line- Ref. Vertex PN 6000 Ref. Vertex PN 7000 FPS on Alu Rail- Ref. Vertex PN 8000 Ref. Vertex PN 9000
2	Roof top	<ul style="list-style-type: none"> Fall through skylight Fall from roof edge Fall from roof slope 	Temporary Horizontal Line- Ref. PN 3000(BC), Ref. PN 3001, Ref. PN 3001(C), Ref. PN 3002, Ref. PN 3002(C) Handy Line- Ref. PN 4001	Fixed Horizontal Line Systems- Ref. PN 4000, Ref. PN 5000
3	Scaffold	<ul style="list-style-type: none"> Fall while erecting and dismantling the scaffold Fall while working on scaffold 	Rope Grabs on Textile Anchorage Lines	<ul style="list-style-type: none"> FPS on Alu Rail- Ref. Vertex PN 8000 Ref. Vertex PN 9000
4	Truck loading / unloading	<ul style="list-style-type: none"> Fall from truck Injury due to swing fall 	NA	Fixed Horizontal Line Systems- Ref. PN 4000, Ref. PN 5000
5	Beams and girders	Fall due to movement on beam	Point Anchorage Devices- Ref. SA 08, Ref. SA 15, Ref. SA 13	
6	Confined spaces	Fall while lowering or raising the user	Tripod, Megapod, Hexapod and Quadpod	K-Pod
7	Constructions	Fall through unguarded edges of platforms / slabs	Anchorage Slings and Point Anchorage Devices- Ref. PN 805, Ref. PN 806, Ref. SA 13A, Ref. SA 12, Ref. SA 09, Ref. SA 16	
8	Tower erection	Fall while erecting and dismantling the tower	Retractable Twin Block	
9	Exterior facade	Fall while working in suspended position	Parapet Anchors- Ref. SA 11, Ref. SA 11(B), Point Anchorage Devices- Ref. SA 12, Ref. SA 09	Floor Mounted Alu-Rail System Floor Mounted Wire Rope System
10	Rescue	Fall hazard	Anchorage Slings- PN 803, PN 807, PN 813	

TEMPORARY ANCHORAGE LINE SYSTEMS



KARAM provides a vast range of Temporary Horizontal and Vertical Anchorage Line Systems that are extremely easy to carry and install. These lifelines provide a suitable and safe anchorage to the user whenever required.

Pre-Use Checks For Rope Grab Fall Arrester And Anchorage Line



Check the inner part of the Rope Grab visually. It should not show any signs of deformity, bents, cracks or traces of corrosion on the body.



Check the anchorage line for any cuts, abrasion marks or any sharp objects.



Check for smooth opening, closing and locking. Once closed onto the anchorage line, the Rope Grab should not open on its own.



Check for any signs of rusting, corrosion or sharpness on the teeth of the Rope Grab.



Inspect the spring. Ensure that it should not be broken, and there should not be cracks, deformations, traces of corrosion or foreign objects.



Check the movement of Fall Arrester on Anchorage Line. It should move freely, and immediately grab the Rope when released.

Testing



DYNAMIC PERFORMANCE TEST

TESTED & CERTIFIED



▶ TEMPORARY VERTICAL ANCHORAGE LINE SYSTEMS

KARAM offers Temporary Vertical Anchorage Line Systems which are quick and easy to install. All these systems have uniquely designed Rope Grabs that grab onto the Anchorage Line on which they move, thus arresting the fall immediately.

GUIDED TYPE FALL ARRESTER SYSTEM ON FLEXIBLE ANCHORAGE LINE



Ref. PN 2000A



EN 353-2:2002



Ref. PN 2000B



EN 353-2:2002



Ref. PN 2000C



EN 353-2:2002

Technical Snapshot

Ref.	Rope Grab	Attachment Element	Anchorage Line	Certified to
PN 2000A	Galvanized Steel Openable Rope Grab for fibre rope: Ref. RG 01	Steel Screw Locking Karabiner PN 112(C)	Polyamide Twisted rope of dia 14mm to 16mm.	EN 353-2:2002
PN 2000B	Galvanized Steel Openable Rope Grab RG 01 permanently stitched with Shock Absorber PN 300.			
PN 2000C	Galvanized Steel Openable Rope Grab RG 01 permanently stitched with spacing strap.	Steel Snap Hook PN 121		

The Anchorage Line has coloured tracer yarn which loses its colour in due course of time, to indicate that the rope is now unfit for further use.



▶ ROPE GRAB

Ref. RG 01

- Fail-proof design ensures correct usage.
- Arrests fall within a very short fall distance.
- Is equipped with a double security opening system, hence will not open unless deliberate action is taken.



Only KARAM Openable Rope Grab Fall Arrester comes with the unique anti-gravity locking system.

Allows the user to go up but not slide down accidentally. Keeps in stationary position when locked.



Automatic locking



Locked position allows manual locking

GUIDED TYPE FALL ARRESTER SYSTEM ON FLEXIBLE ANCHORAGE LINE



Ref. PN 2003

- This system is an ideal fall restraint device for use while working on platforms and roofs.
- Rope Grab is not detachable from the rope. This gives an advantage that the worker does not lose the device when the equipment is not in use.
- Has one side loop for Connector and a stop knot on the other side.
- Available in lengths of 5m to 100m.



EN 353-2:2002
AS/NZS 1891.1-2007



Ref. PN 2004

- Consists of highly corrosion resistant rope grab, hence ideal for the marine and offshore atmosphere.
- Rope Grab is not detachable from the rope. This gives an advantage that the worker does not lose the device when the equipment is not in use.
- Has one side loop for Connector and a stop knot on the other side.
- Available in lengths of 5m to 100m.

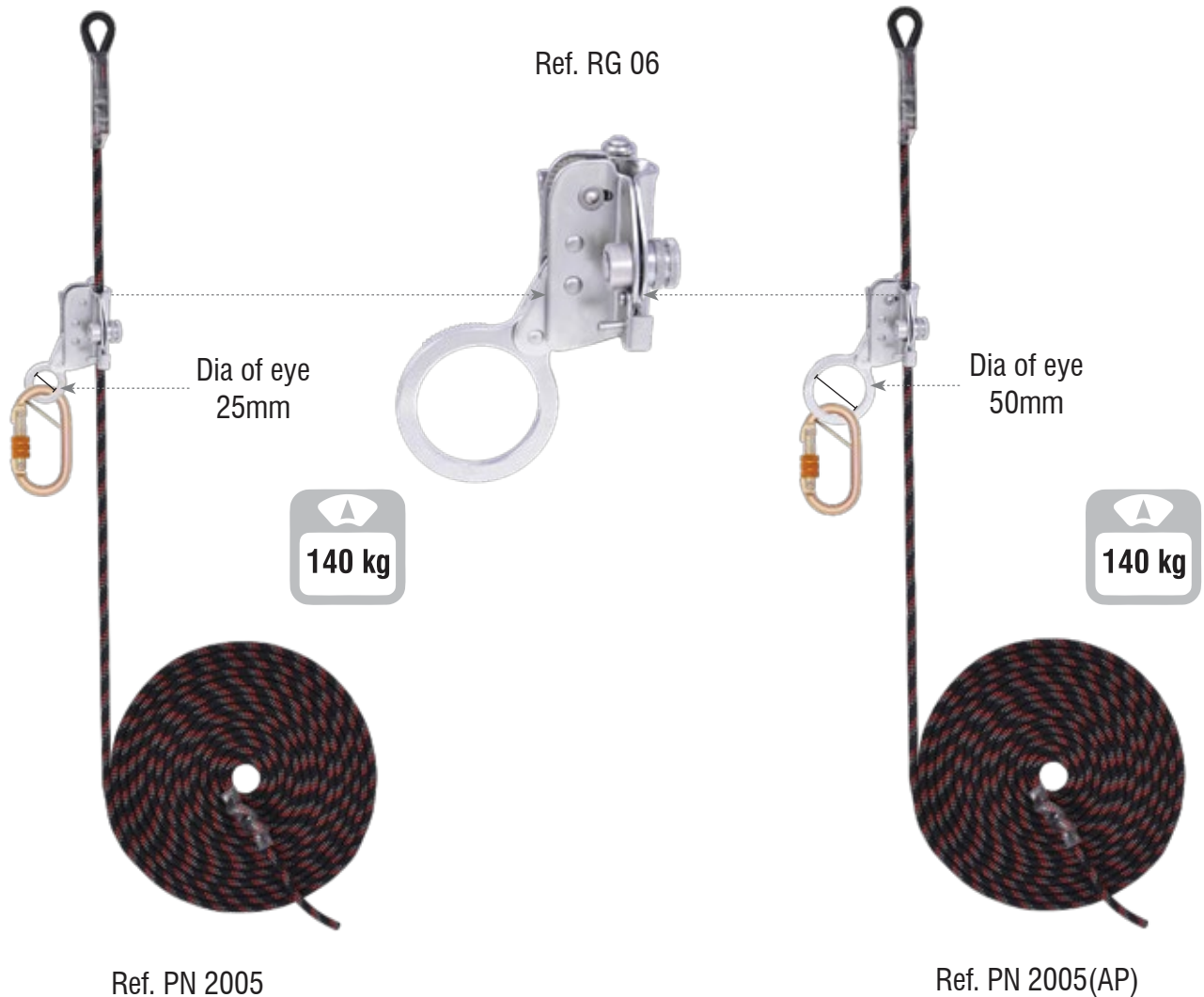


EN 353-2:2002

Technical Snapshot				
Ref.	Rope Grab	Attachment Element	Anchorage Line	Certified to
PN 2003	Galvanized Steel Non Openable Rope Grab RG 03 permanently stitched with Shock Absorber PN 300	Steel Screw Locking Karabiner PN 112(C)	Kernmantle Rope of dia 12mm	EN 353-2:2002 AS/NZS 1891.1-2007
PN 2004	Stainless Steel Non Openable Rope Grab RG 05 permanently stitched with Shock Absorber PN 300(S)			EN 353-2:2002


The Anchorage Line has coloured tracer yarn which loses its colour in due course of time, to show that the rope is now unfit for further use.

GUIDED TYPE FALL ARRESTER SYSTEM ON FLEXIBLE ANCHORAGE LINE



- Both these systems have one side loop for Connector and a stop knot on the other side. The termination is cross-stitched, and is protected with a strong transparent covering sleeve which not only protects the end but also makes the stitches visible for easy inspection prior to use.
- Abrasion resistant thimble at termination to protect the loops from being damaged by metallic contact.
- Available in lengths of 5m to 100m.





WHAT IS ANTI-PANIC?

In most situations, the user comes under a state of panic when experiencing a fall. He immediately reaches out to grasp the rope grab, thereby releasing the cam and preventing the device from grabbing onto the rope. In such a case, the Rope Grab fails in its purpose and a fall is induced by the panic-stricken user.

KARAM offers an Anti-Panic locking feature in its Rope Grab system in PN 2005(AP), PN 2007(AP), PN 2008(AP) and PN 2010(AP), which helps to keep the Rope Grab securely anchored to the lifeline even when the user grips the device.



Scan here for a virtual tour of the product

Technical Snapshot				
Ref.	Rope Grab	Attachment Element	Anchorage Line	Certified to
PN 2005 PN 2005(AP)	For PN 2005- Openable Stainless Steel Rope Grab: Ref. RG 06(25)	Steel Screw Locking Karabiner PN 112(C)	Kernmantle Rope of dia 12mm.	EN 353-2:2002
	For PN 2005(AP)- Openable Anti-Panic Stainless Steel Rope Grab: Ref. RG 06(50)			

The Anchorage Line has coloured tracer yarn which loses its colour in due course of time, to indicate that the rope is now unfit for further use.

GUIDED TYPE FALL ARRESTER SYSTEM ON FLEXIBLE ANCHORAGE LINE

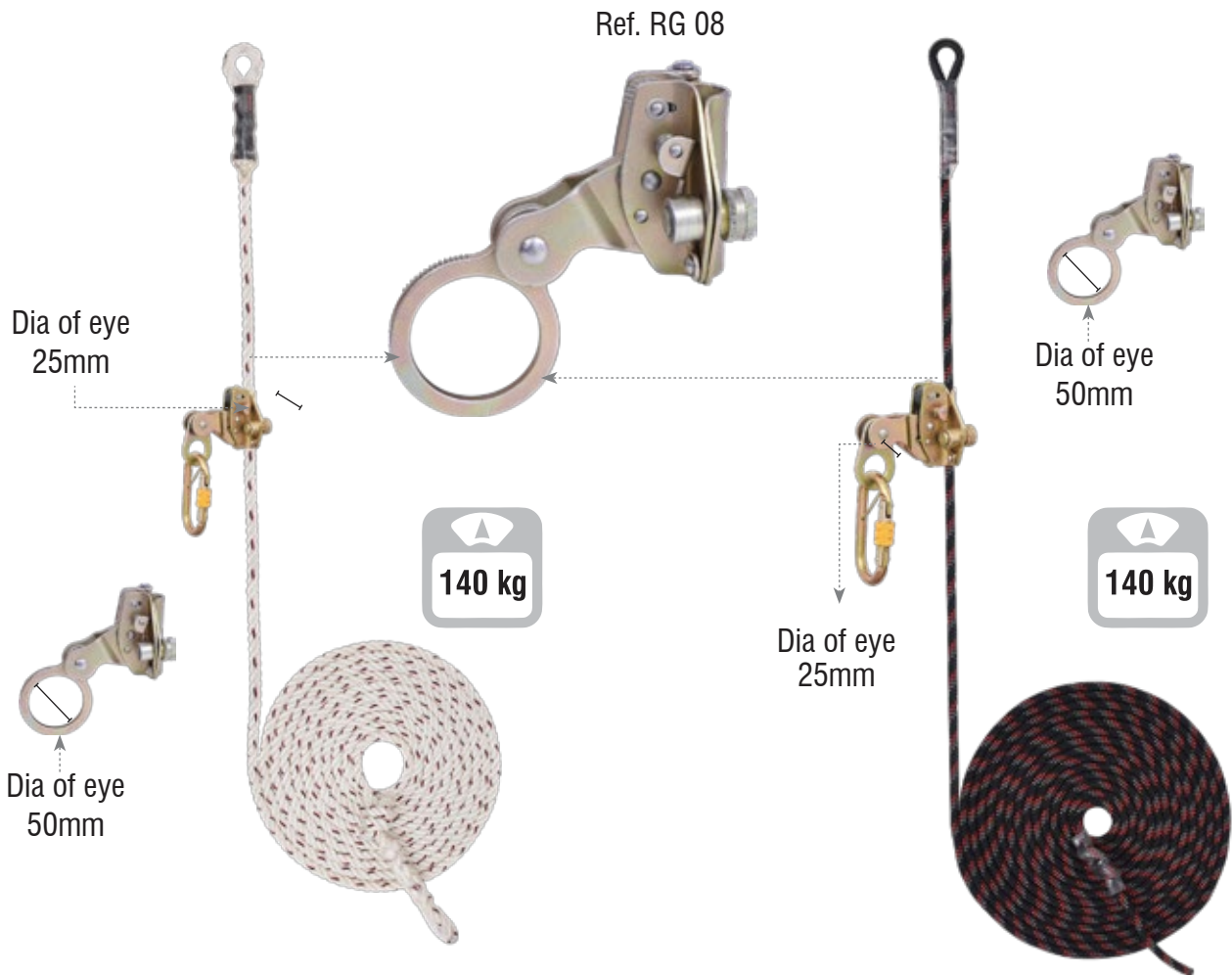


- In both these systems, the Rope Grab (RG 07) has a manual lock position to allow work on an inclined roof, and also restraint positioning.
- PN 2006 has Energy Absorber at one end and a stop knot at other end whereas PN 2006(11) has one side loop for Connector and a stop knot on the other side.
- Abrasion resistant thimble to protect the loops from being damaged by metallic contact.
- The termination is cross-stitched and protected by a strong transparent covering sleeve which not only protects the end but also makes the stitches visible for easy inspection before use.
- Available in lengths of 5m to 100m.

Technical Snapshot				
Ref.	Rope Grab	Attachment Element	Anchorage Line	Certified to
PN 2006 PN 2006(11)	For PN 2006 and PN 2006(11)- Openable Aluminium Rope Grab Blocker: Ref. RG 07	Steel Screw Locking Karabiner PN 112 permanently attached with wire sling	For PN 2006- Kernmantle Rope of dia 12mm. PN 2006(11)- Kernmantle Rope of dia 11mm.	PN2006: EN 353-2:2002 PN 2006(11): EN 353-2:2002 EN 12841:2006 Type A

The Anchorage Line has coloured tracer yarn which loses its colour in due course of time, to indicate that the rope is now unfit for further use.

GUIDED TYPE FALL ARRESTER SYSTEM ON FLEXIBLE ANCHORAGE LINE



Ref. PN 2007, PN 2007(AP)

- Both these systems have one side loop for Connector and a stop knot on the other side. The termination is spliced and protected by a strong transparent covering sleeve which not only protects the end but also makes the splicing visible for easy inspection before use.
- PN 2007(AP) comes with Anti-panic features.
- Abrasion resistant thimble to protect the loops from being damaged by metallic contact.
- Available in lengths of 5m to 100m.



Ref. PN 2008, PN 2008(AP)

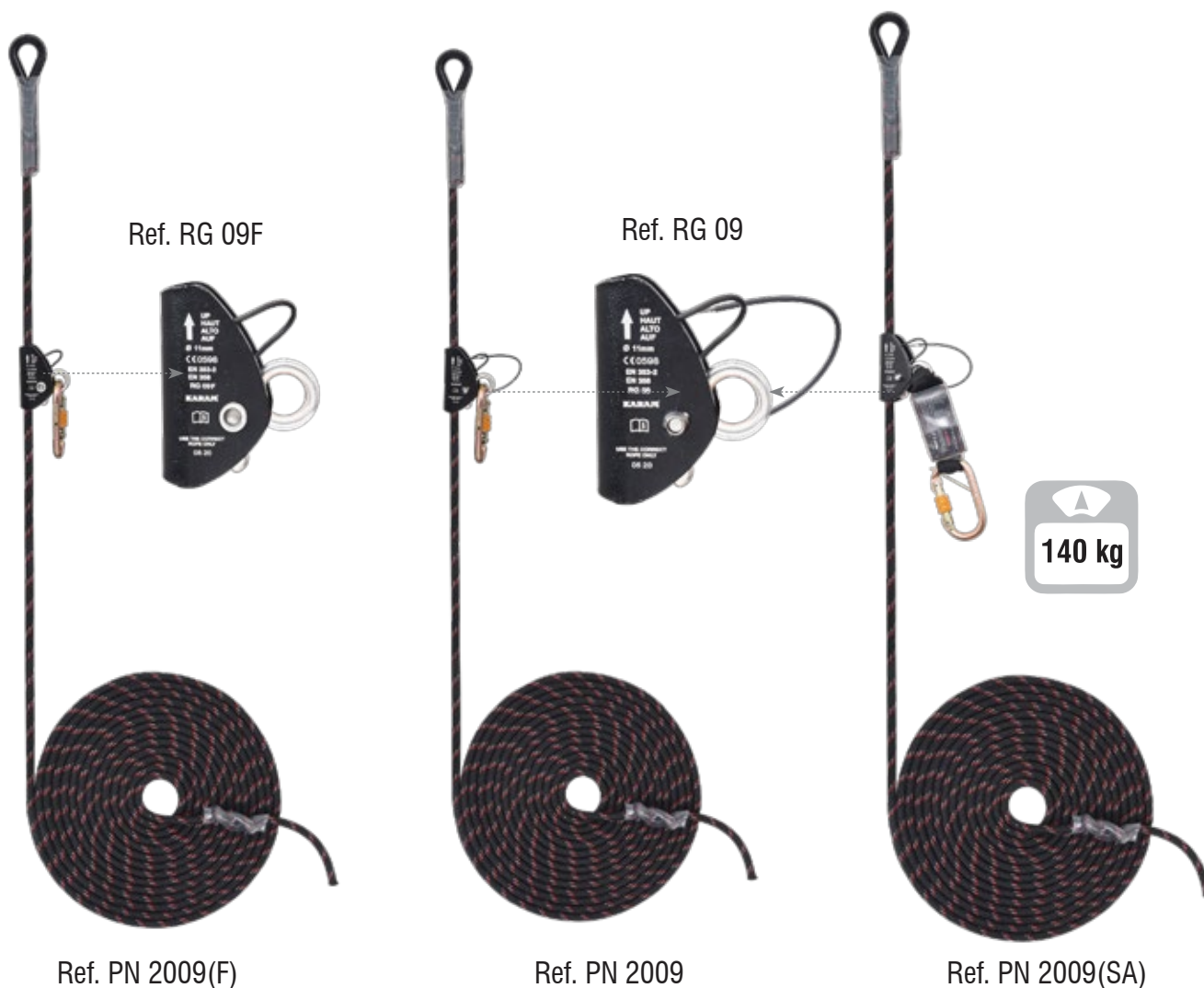
- Both these systems have one side loop for Connector and a stop knot on the other side. The termination is cross stitched and protected by a strong transparent covering sleeve which not only protects the end but also makes the stitches visible for easy inspection before use.
- PN 2008(AP) comes with Anti-panic features.
- Abrasion resistant thimble to protect the loops from being damaged by metallic contact.
- Available in lengths of 5m to 100m.



Technical Snapshot				
Ref.	Rope Grab	Attachment Element	Anchorage Line	Certified to
PN 2007 PN 2007(AP)	For PN 2007- Openable Galvanized Steel Rope Grab: Ref. RG 08(25)	Steel Screw Locking Karabiner PN 112(C)	Polyamide Twisted Rope of dia 14mm to 16mm.	EN 353-2:2002
	For PN 2007(AP)- Openable Galvanized Steel Antipanic Rope Grab: Ref. RG 08(50)			
PN 2008 PN 2008(AP)	For PN 2008- Openable Galvanized Steel Rope Grab: Ref. RG 08(25)	Steel Screw Locking Karabiner PN 112(C)	Kernmantle Rope of dia 12mm.	EN 353-2:2002
	For PN 2008(AP)- Openable Galvanized Steel Antipanic Rope Grab: Ref. RG 08(50)			

The Anchorage Line has coloured tracer yarn which loses its colour in due course of time, to indicate that the rope is now unfit for further use.

GUIDED TYPE FALL ARRESTER SYSTEM ON FLEXIBLE ANCHORAGE LINE



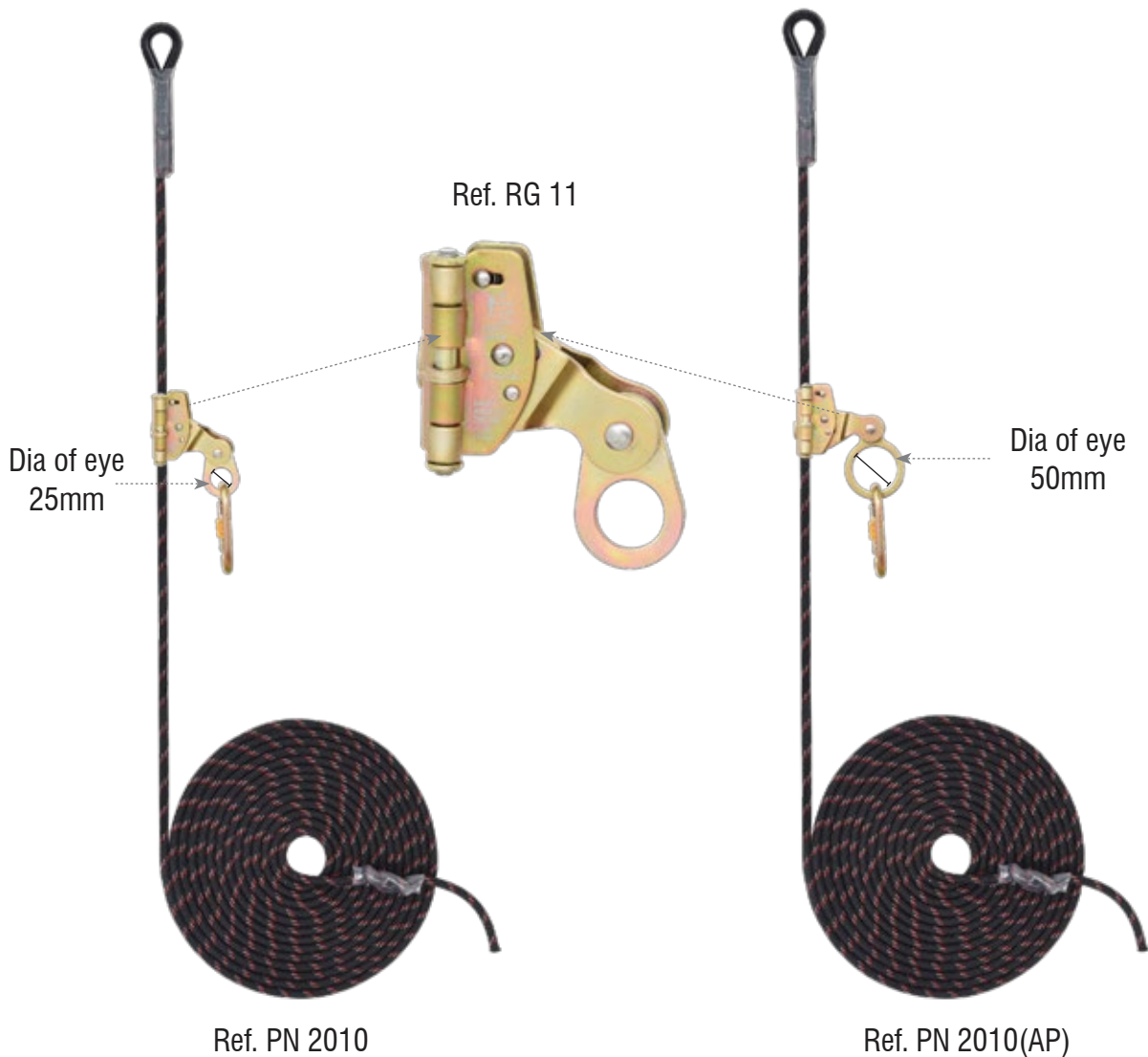
- Above systems have one side loop for Connector and a stop knot on the other side.
- Abrasion resistant thimble at termination to protect the loops from being damaged by metallic contact.
- The termination is cross-stitched, and is protected with a strong transparent covering sleeve which not only protects the end but also makes the stitches visible for easy inspection before use.
- Available in lengths of 5m to 100m.



Technical Snapshot				
Ref.	Rope Grab	Attachment Element	Anchorage Line	Certified to
PN 2009 PN 2009(F) PN 2009(SA)	For PN 2009- Openable Aluminium Alloy Rope Grab: Ref. RG 09 For PN 2009(F)- Non-openable Aluminium Alloy Rope Grab: Ref. RG 09(F) For PN 2009(SA)- Openable Aluminium Alloy Rope Grab Ref. RG 09 permanently stitched with Shock Absorber PN 300(S)	Steel Screw Locking Karabiner PN 112(C)	Kernmantle Rope of dia 11mm.	EN 353-2:2002

The Anchorage Line has coloured tracer yarn which loses its colour in due course of time, to indicate that the rope is now unfit for further use.

GUIDED TYPE FALL ARRESTER SYSTEM ON FLEXIBLE ANCHORAGE LINE



- Both these systems have one side loop for Connector and a stop knot on the other side. The termination is stitched and protected with a strong transparent covering sleeve which not only protects the end but also makes the stitches visible for easy inspection before use.
- PN 2010(AP) comes with Anti-Panic features.
- Abrasion resistant thimble at termination to protect the loops from being damaged by metallic contact.
- Available in lengths of 5m to 100m.



EN 353-2:2002

Technical Snapshot				
Ref.	Rope Grab	Attachment Element	Anchorage Line	Certified to
PN 2010 PN 2010(AP)	For PN 2010- Openable Galvanized Steel Rope Grab; Ref. RG 11 (25) PN 2010(AP)- Openable Galvanized Steel Antipanic Rope Grab; Ref. RG 11 (50)	Steel Screw Locking Karabiner PN 112(C)	Kernmantle Rope of dia 11mm and 12mm.	EN 353-2:2002
The Anchorage Line has coloured tracer yarn which loses its colour in due course of time, to indicate that the rope is now unfit for further use.				

► TEXTILE ROPES FOR ANCHORAGE LINES

KARAM offers Textile Anchorage Lines in both polyamide and polyester, made of Twisted Rope and Kernmantle Ropes, available in different lengths to suit application. These Anchorage Lines are certified as a system only when used with specific KARAM Rope Grab Fall Arresters.



TWISTED ROPE ANCHORAGE LINE (14MM)

- Made of 3-strand Polyamide Twisted Rope of dia 14mm.
- One side loop; other side stop knot. (Also available with both side loops).



KERNMANTLE ROPE ANCHORAGE LINE (12MM)

- Made of Polyester Kernmantle Rope of dia 12mm.
- One side loop; other side stop knot. (Also available with both side loops).



KERNMANTLE ROPE ANCHORAGE LINE (11MM)

- Made of Polyamide Kernmantle Rope of dia 11mm.
- One side loop; other side stop knot. (Also available with both side loops).



KERNMANTLE ROPE ANCHORAGE LINE WITH ENERGY ABSORBER (12MM)

- Made of Polyester Kernmantle Rope of dia 12mm.
- One side Energy Absorber PN300(S); other side stop knot. (Also available with other side loops).

Technical Snapshot		
Anchorage Line	Ref.	Length
Twisted Rope Anchorage Line (14mm)	Anchor PN 910	10m
	Anchor PN 920	20m
	Anchor PN 930	30m
	Anchor PN 940	40m
	Anchor PN 950	50m
	Anchor PN 9100	100m
	Anchor PN 9150	150m
	Anchor PN 9200	200m
Kernmantle Rope Anchorage Line (11mm)	Anchor PN 910 (KRKD 11)	10m
	Anchor PN 920 (KRKD 11)	20m
	Anchor PN 930 (KRKD 11)	30m
	Anchor PN 940 (KRKD 11)	40m
	Anchor PN 950 (KRKD 11)	50m

*Note: Longer length are also available on request.

Technical Snapshot		
Anchorage Line	Ref.	Length
Kernmantle Rope Anchorage Line (12mm)	Anchor PN 910 (KRAL 12)	10m
	Anchor PN 920 (KRAL 12)	20m
	Anchor PN 930 (KRAL 12)	30m
	Anchor PN 940 (KRAL 12)	40m
	Anchor PN 950 (KRAL 12)	50m
Kernmantle Rope Anchorage Line with Energy Absorber (12mm)	Anchor PN 910 (KRAL 12)(S)	10m
	Anchor PN 920 (KRAL 12)(S)	20m
	Anchor PN 930 (KRAL 12)(S)	30m
	Anchor PN 940 (KRAL 12)(S)	40m
	Anchor PN 950 (KRAL 12)(S)	50m

*Note: Longer length are also available on request.

► ACCESSORIES

NEW



► PROTECTIVE SLEEVE

Ref. PR 01

- Designed to protect flexible Anchorage Lines against abrasion on sharp edges.
- Made of polyester tubular webbing of width 33mm.
- Is moveable along the length of the Anchorage Line.
- Non-openable.
- Standard length 30cm. However, it can be customized as per requirement.



► EDGE PROTECTOR

Ref. ARC 02

- Material: Stainless Steel.
- Protects the rope from abrasion against an edge.
- The edge ring-guides on the angle of the Edge protector prevents different Anchorage Lines from getting entangled over the edge.



► OPENABLE PROTECTIVE SLEEVE

Ref. PR 02

- Designed to protect flexible Anchorage Lines against abrasion due to friction.
- Is made of flexible PVC and is detachable.
- The width of PR 02 is: Open: 130mm and Folded: 50mm.
- Can be opened/closed with the help of velcro tape stitched along the length.
- Standard length: 55cm.

► HORIZON TEXTILE HORIZONTAL LINE

KARAM offers the Horizon range of Temporary Horizontal Lifelines, made of textile webbing and rope, which is extremely easy to carry and install wherever required. These Anchorage Lifeline systems by KARAM provide a suitable and safe anchorage horizontally along the entire length.

► HORIZON TEMPORARY HORIZONTAL WEBBING ANCHORAGE LINE

Ref. Horizon PN 3000(BC)

- The Horizon PN 3000(BC) is a Horizontal Anchorage Lifeline made up of 30mm polyester webbing equipped the KARAM Ratchet Tensioner that allows easy tensioning of the lifeline between two structures. Both the ends are provided with Auto-Locking Steel Karabiners PN 113.
- Comes with 2 Cross Arm Straps PN 804 each to tie off to the structure where the anchorage is required.
- The whole system is supplied in a bag, which is permanently attached to the assembly and also enables the user to easily carry the system with the help of comfortable shoulder hanging straps provided in the bag.
- Available length- total 20m, so the user can use it for a length ranging from 5m to 20m.
- Tested and certified for use by two users simultaneously.
- Once the lifeline is fitted, the user can easily attach the Lanyard of his Harness to the lifeline using a Karabiner. This allows movement along the length while keeping the user secured and safe at all times.
- Certified to EN 795:2012 and TS 16415:2013 Type B&C (for up to 2 users).



Ref. PN 804
(1.0m)



Scan here for a virtual tour of the product



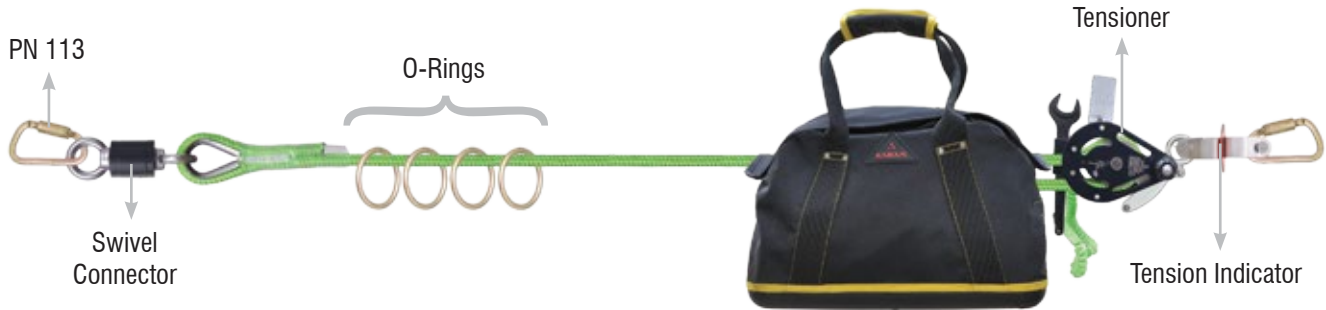
EN 795:2012
TS 16415:2013 Type B&C

NEW

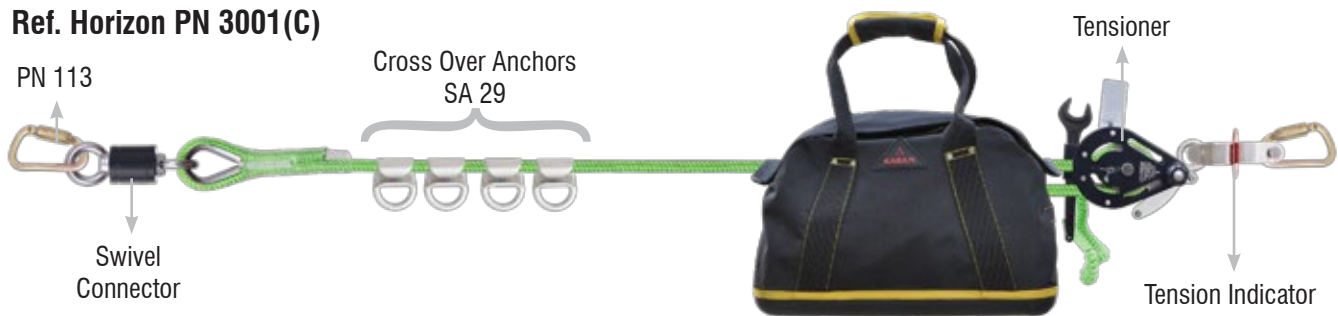
► **HORIZON 4 MAN TEMPORARY HORIZONTAL ROPE ANCHORAGE LINE**

KARAM introduces a new Horizon 4 Man Temporary Horizontal Lifeline, which is extremely easy to carry and install. It provides a suitable and safe anchorage horizontally along the entire length. Suitable for up to 4 personnel.

Ref. Horizon PN 3001



Ref. Horizon PN 3001(C)



► **GENERAL FEATURES**

- Quick and easy to install, also reusable.
- PN 3001 has 4 Steel O-Rings to enable the user to easily attach the Lanyard of his Harness to the Lifeline using a Karabiner.
- PN 3001(C) has 4 Cross Over Anchors SA 29 made of Stainless Steel to allow easy crossing over between users, and prevent any disengagement from the lifeline, ensuring 100% tie off at all times.
- Consists of a tension indicator for creating an adequate tension in the line. Once the required tension is achieved, the disc on the tension indicator gets released, indicating the line is ready to use.
- Has swivel connector- specially designed to prevent any twisting of the rope.
- Minimum breaking strength: 25kN
- The whole system is supplied in a bag (Ref. BGFB 161), which is permanently attached to the assembly. Enables the user to easily carry the system with the help of comfortable handles provided in the bag. This bag is designed in such a way that it keeps the unused rope safely, thereby preventing the rope from being subjected to abrasion or any damage caused by dust, dirt grime, oil etc. Once fitted, you can easily put back the extra rope not deployed along the length, into the bag.
- Certified to EN 795:2012 Type C and TS 16415:2013 Type C (for up to 4 users).



Scan here for a virtual tour of the product



EN 795:2012 Type C
TS 16415:2013 Type C

Technical Snapshot

Ref.	Rope type	Material of tensioner	Attachment ends	Anchorage type	Max. no. of users	Max. span length	Weight
PN 3001	Kernmantle Rope of dia 16mm	Aluminium and Stainless steel	One end-Swivel Connector with PN 113	Forged Galvanized Steel O-Rings. Qty-4 nos.	4 users	5m to 25m	9.28kg ± 0.10kg
PN 3001(C)			Other end-Tension Indicator with PN 113	Cross Over Anchors. Qty-4 nos.			10.11kg ± 0.10kg

NEW

► **HORIZON 2 MAN TEMPORARY HORIZONTAL ROPE ANCHORAGE LINE**

The new Horizon 2 Man Temporary Horizontal Lifeline is another lifeline that is quick and easy to install. This Lifeline is suitable for upto 2 personnel.

Ref. Horizon PN 3002



Ref. Horizon PN 3002(C)



► **GENERAL FEATURES**

- **PN 3002** has 2 steel O-rings to enable the user to easily attach the lanyard of his Harness to the lifeline using a Karabiner.
- **PN 3002(C)** has 2 Cross Over Anchors (SA 29) made of Stainless Steel to allow easy crossing over between users, and prevent any disengagement from the lifeline, ensuring 100% tie off at all times.
- Has a unique tension indicator in which once the required tension is achieved, the disc on the tension indicator gets released, indicating the line is ready to use.
- Minimum breaking strength: 25kN.
- The whole system is supplied in a bag, which is permanently attached to the assembly. Enables the user to easily carry the system with the help of comfortable handles provided in the bag. This bag is designed in such a way that it keeps the unused rope safely, thereby preventing the Rope from being subjected to abrasion or any damage caused by dust, dirt grime, oil etc.
- Once fitted, you can easily put back the extra rope not deployed along the length, into the bag.
- Certified to EN 795:2012 Type C and TS 16415:2013 Type C (for up to 2 users).



EN 795:2012 Type C
TS 16415:2013 Type C

Technical Snapshot

Ref.	Rope type	Material of tensioner	Attachment ends	Anchorage type	Max. no. of users	Max. span length	Weight
PN 3002	Kernmantle Rope of dia 16mm	Galvanized Steel	One end- Stitched loop with PN 113 Other end- Tension indicator with PN 113	Forged Galvanized Steel O-rings qty- 2 nos.	2 users	5m to 25m	8.26kg ± 0.10kg
PN 3002(C)				Cross Over Anchors qty- 2 nos.			9.02kg ± 0.10kg

► HANDY LINE TEMPORARY HORIZONTAL LIFELINE

Ref. Horizon PN 4001

KARAM offers the Horizontal Lifeline to protect those workers working in the horizontal plane who may not have continuous access to suitable anchorage points.



Scan here for a virtual tour of the product



► GENERAL FEATURES

- Housing is made up of durable and high-strength polymer.
- Lightweight and portable design.
- Extremely easy to install; retractable lifeline is simply pulled out for installation up to the required length and retracted back with the built-in winch into an easy-to-carry case.
- Has inbuilt Winch for easy retraction of rope back into the housing/case for fast, simple and safe dismantle.
- Eliminating large and bulky coils of cable that are difficult to set-up and store.
- Has an inbuilt shock absorption mechanism to limit the impact forces during fall arrest.
- Has molded handle for easy carriage.
- Comes with Hook PN 162 at the termination end for easy connection.

► KARAM ADVANTAGE

- Can be used by a maximum of 2 users simultaneously.
- Has a tension indicator to indicate required tension in the line.
- Padded handle for easy transportation.
- Impact Indicator on the hook turns red in the case of a fall.



Technical Snapshot				
Construction of rope	Maximum span Length of wire rope	System breaking Strength	Weight	Conforms to
7x19 Galvanized Steel Wire Rope of dia 6.0mm	18.0m	22kN	14.30kg	EN 795:2012 Type C TS 16415:2013 Type C (for up to 2 users) ATEX 2014/34/EU



► EDGE FIX ANCHOR POST

Ref. SA 28

KARAM offers a portable and extremely easy to install Anchor Post for installation of Horizontal Line on steel construction I-Beam section.

► GENERAL FEATURES

- Span lengths are adjustable with the help of intermediates.
- The post comes with a unique tilted design to allow unobstructed movement of the user during the construction of roofs or metal structure.
- Can be used by a maximum of 4 users simultaneously.
- Compatible with a beam having a flange width of 150 mm to 220 mm.
- Comes with a universal extremity plate PN 4000(09) for making connections.



Technical Snapshot				
Ref.	Material	Weight	Minimum Breaking Strength	Conforms to
SA 28	ED coated high strength alloy steel	12.80kg	15kN	EN 795:2012 Type B TS 16415:2013 Type B (for upto 4 users)

RETRACTABLE FALL ARRESTER BLOCKS



One of the biggest challenges in fall protection is when the Anchorage point is too high to access and the clearance distance is too small. KARAM Retractable Fall Arrester Blocks provide an ideal solution for such a problem.



Scan here for a virtual
tour of the product

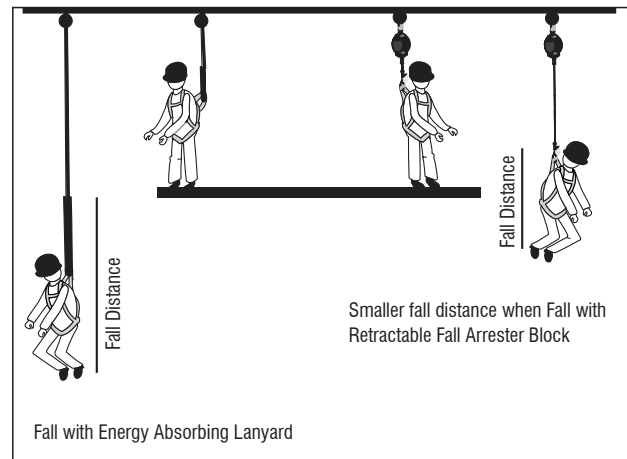
Retractable Fall Arrester Blocks- The Perfect Solution For Challenging Situations

Challenges faced during work at height:

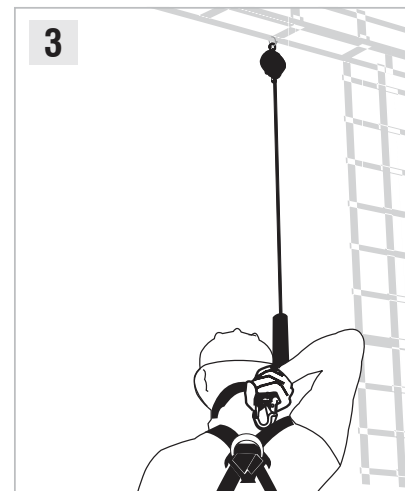
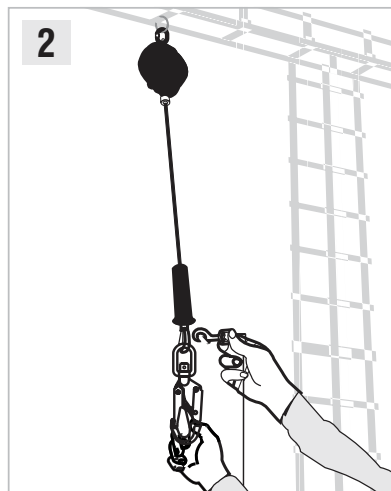
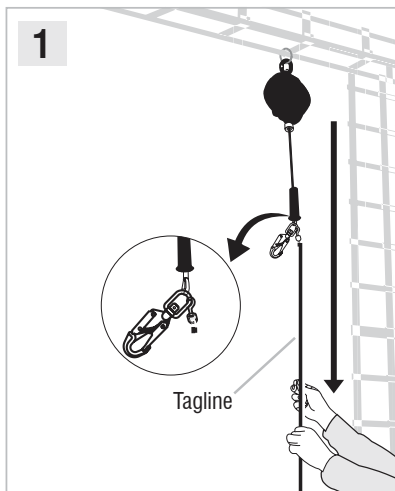
- Working on towering heights.
- Work in areas having less clearance distance.
- Repeated work on a defined site, at a height.
- Lack of enough suitable Anchorage points.

Retractable Block:

- Can be anchored at a single point and allows the user to move uninhibited at different levels.
- The connecting Lanyard is such that it retracts or extends to different lengths as required, is always taut, with no slack.
- In the event of a fall, the Block locks immediately, with minimum fall distance and lowers the impact of force to less than 6 kN.



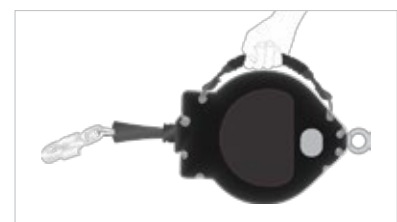
PULL DOWN THE LANYARD OF BLOCK USING TAG LINE



Additional benefit offered:

KARAM offers built in Side Handle with special grip for perfect comfort when carrying of heavier blocks. This special handle comes incorporated in all Polymer casing, GI and Webbing lanyard Blocks of 10m size to 30m size.

KARAM handle is placed on the side of the Block. This enables the Block to be carried easily and also prevents the Retractable line to hit against the ground while walking (which may be a case if the handle was placed at the top).



TESTED & CERTIFIED



DYNAMIC TESTING

Testing



PROOF LOAD TESTING

NEW

ARMOR BLOCK WITH SEALED CASING

KARAM offers Armor range of Blocks specially meant for the toughest and harshest environments. The heavy duty sealed design, corrosion resistant material used in the Block keeps the critical working components free of dirt, grease, water and chemicals. It is best suited for Oil and Gas Industries and offshore areas.

Sealed Design (meets IP68 Level of IEC 60529)
All critical parts of the block are sealed from contamination thereby increasing its reliability in harsh conditions.

Side Handle with Special Grip
Consists of side handle with special grip for easy carriage and Safe transportation.

Stainless Steel Cover
For maximum durability in harsh environments.

Snout for minimizing the accidental Locking
Consists of Snout which minimizes the accidental locking of the Block when the wire rope is released suddenly.

4.5mm Diameter Retractable Stainless Steel Wire Rope of length 30m
Provides increased strength

Quick Lifeline Assembly
The only non-sealed portion of the block can easily be changed on site by a competent person. The wire rope can be changed quickly and easily with minimum tools.

Wire Rope Length: 30m



Ref. SLBL 30 | 17.0 kgs



Pivoting Anchorage Loop
Allows the block to move slightly to minimize friction on the cable if the block is not well aligned.



Certified to
EN 360:2002
IP68 Level of IEC 60529
ATEX 2014/34/EU

Impact Indicator in Hook
Allows easy visual inspection to determine if the unit has experienced a fall by a user.

Stainless Steel Swivel Snap Hook PN 162SS
at attachment end.

Wire Rope Length: 10m



Ref. SLBL 10 | 7.36 kgs

Wire Rope Length: 20m



Ref. SLBL 20 | 11.6 kgs

► **SEALED BLOCK WITH RETRIEVAL FEATURE**



EN 360:2002
IP68 Level of IEC 60529
EN 1496:2017 Class B

NEW

Wire Rope Length: 30m

325.9mm



Side Handle with Special Grip

Consists of side handle with special grip for easy carriage and safe transportation.

Certified to

EN 360:2002
IP68 Level of IEC 60529
EN 1496:2017 Class B
ATEX 2014/34/EU

Snout for minimizing the accidental Locking

Consists of Snout which minimizes the accidental locking of the Block when the wire rope is released suddenly.

4.5mm Diameter Retractable Stainless Steel Wire Rope of length 30m

Provides increased strength

Impact Indicator in Hook

Allows easy visual inspection to determine if the unit has experienced a fall by a user.

Stainless Steel Swivel Snap Hook PN 162SS

at attachment end.

Ref. SLBL 30R 19.3 kgs

Sealed Design (meets IP68 Level of IEC 60529)

All critical parts of the block are sealed from contamination thereby increasing its reliability in harsh conditions.

Stainless Steel Cover

For maximum durability in harsh environments.

Locking Pin

To allow Retrieval Block to work in Fall arrest mode and Winch mode independently.

Retrieval Handle for Rescue

SLBL 20R and SLBL 30R comes with an integrated rescue handle to enable rescue of a casualty after the fall has been arrested.

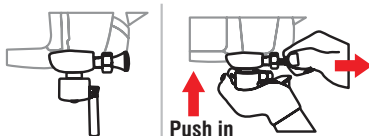


► **GENERAL FEATURES**

- Retractable mode- enables easy movement of the user while working in confined space.
- Winch mode- enables easy retrieval of the victim post fall arrest.

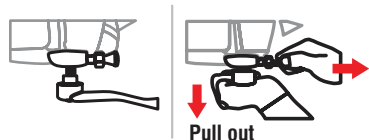
It is easy to shift to Winch mode from Block mode (and vice versa) following the below steps

BLOCK MODE



Pull the Pin and Push the Handle to Reverse in Block Mode

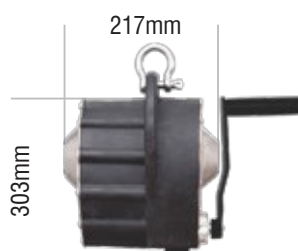
WINCH MODE



Pull The Pin and Handle to Shift to Winch Mode

Wire Rope Length: 20m

265mm



Ref. SLBL 20R 13.14 kgs

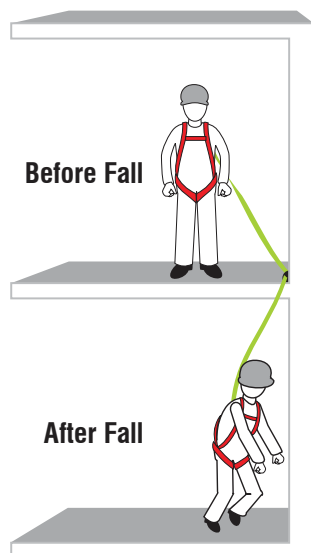
► MIKRON BLOCK

Ref. MIC 02

The ergonomically designed MICRON is light in weight, easy to use and ideal for direct connection to most Harnesses.



EN 360:2002
VG 11 CNB/P/11.060



Fall Factor 2

In Fall Factor 2, Anchor point is located below the foot



Scan here for a virtual tour of the product



► GENERAL FEATURES

- Length of webbing: 2m.
- Ideal for direct connection to most Harnesses and can be easily used as a lanyard replacement. It is best suited for situations where the anchor point is available at foot level.
- Locks quickly; arresting a fall within inches- providing more protection at low heights.
- Extremely light in weight.
- High-strength housing provides maximum durability.
- Comes with Aluminium Swivel Quarter Turn Locking Hook PN 130 having impact indicator at the attachment end.
- Automatic quick fall arrester to arrest fall to less than 4kN and fall arrest distance to less than 600mm.
- Meets the Sharp Edge Test and Passes the Dynamic Test of Fall Factor 2.
- Minimum breaking strength: 16kN
- Certified to EN 360:2002, VG 11 CNB/P/11.060, ATEX 2014/34/EU

MIKRON AS A LANYARD

KARAM offers a unique Twin SRL Connector to use Micron as both Single and Forked Lanyards.



Twin SRL Connector
Ref. PN 174

► GENERAL FEATURES

- Micron can be used as a Single or Forked Lanyard as per requirement.
- No additional connector is required.
- Reduces the length of the swing during the fall thereby preventing the Micron from hitting the head of the user.
- Can be attached to any of the Harnesses.
- Installed on the webbing of the Harness, so the Dorsal D-ring is free for attaching other equipment or rescue.
- Snug fit design and provides 100% tie-off configuration.
- Provides mobility when moving from one location to another.
- Certified to EN 362:2004 Class M

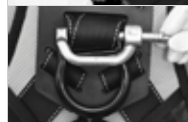
HOW TO USE MIKRON AS A SINGLE OR TWIN LANYARD WITH TWIN SRL CONNECTOR (REF. PN 174)



Open connector by pushing the locking lever and push button at the end simultaneously.



Slide connector through loosened web straps placed below the Dorsal D-ring, then pull straps tight



Push the pin inside the grooves of the connector to ensure locking

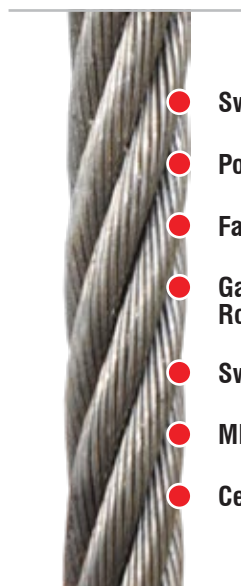
► **RETRACTABLE BLOCKS IN POLYMER CASING WITH GALVANIZED STEEL WIRE ROPE**



EN 360:2002

Wire Rope Length: 3.5m

Wire Rope Length: 5m-7m



- Swivel Eye
- Polymer Casing
- Fall Impact Indicator
- Galvanized Steel Wire Rope Ø4.5mm
- Swivel Hook PN 162
- MBS = 13kN
- Certified to EN 360:2002



GALVANIZED STEEL WIRE ROPE

Ref. PCGS 3.5N	2.23kg
----------------	--------

Ref. PCGS 05	2.80kg
Ref. PCGS 06	2.88kg
Ref. PCGS 07	2.96kg

Wire Rope Length 7.5m-10m

Wire Rope Length 12m-20m

Wire Rope Length 25m-30m



Ref. PCGS 7.5	3.80kg
Ref. PCGS 10	4.00kg

Ref. PCGS 12	6.10kg
Ref. PCGS 15	6.40kg
Ref. PCGS 18	6.80kg
Ref. PCGS 20	7.15kg

Ref. PCGS 25	12.50kg
Ref. PCGS 30	12.80kg

Also available in Stainless Steel Wire Rope

► **RETRACTABLE BLOCKS IN POLYMER CASING WITH WEBBING LANYARD**



EN 360:2002



- Swivel Eye
- Polymer Casing
- Fall Impact Indicator
- 25mm Webbing Width
- Swivel Hook PN 162
- MBS = 16kN
- Certified to EN 360:2002 and Atex for use in potentially explosive atmosphere as per Directive 2014/34/EU

WEBBING LANYARD

Lanyard Length: 02m



Ref. PCWB 02	1.11kg
--------------	--------

Lanyard Length: 3.5m



Ref. PCWB 3.5N	1.60kg
----------------	--------

Lanyard Length 5m-6m



Ref. PCWB 05	2.36kg
Ref. PCWB 06	2.40kg

Lanyard Length 7.5m



Ref. PCWB 7.5	3.20kg
---------------	--------

Lanyard Length 10m-12m



Ref. PCWB 10	5.70kg
Ref. PCWB 12	5.85kg

NEW

SHARP EDGE TESTED RETRACTABLE BLOCKS IN POLYMER CASING WITH GALVANIZED STEEL WIRE ROPE



Wire Rope Length 3.5m

Wire Rope Length 5m-7m

Wire Rope Length 7.5m-10m

SHARP EDGE TESTED BLOCKS

- AREA OF USE**
In conditions where the worker is exposed to sharp edge hazard.
- CERTIFIED TO**
Vertical usage as per EN 360:2002
Horizontal usage as per VG11 RfU 11.060.



Ref. PCGS 3.5N(SE)	2.40kg
--------------------	--------

Ref. PCGS 05(SE)	3.05kg
Ref. PCGS 06(SE)	3.15kg
Ref. PCGS 07(SE)	3.25kg

Ref. PCGS 7.5(SE)	3.85kg
Ref. PCGS 10(SE)	4.05kg

NEW

SHARP EDGE TESTED RETRACTABLE BLOCKS IN POLYMER CASING WITH 25MM WIDE WEBBING LANYARD



Lanyard Length 02m

Lanyard Length 3.5m

Lanyard Length 5m-6m

SHARP EDGE TESTED BLOCKS

- CERTIFIED TO**
Vertical usage as per EN 360:2002
Horizontal usage as per VG11 RfU 11.060.



Ref. PCWB 02(SE)	1.24kg
------------------	--------

Ref. PCWB 3.5N(SE)	1.70kg
--------------------	--------

Ref. PCWB 05(SE)	2.50kg
Ref. PCWB 06(SE)	2.55kg

RETRIEVAL RETRACTABLE BLOCKS

KARAM offers a unique range of Retrieval Fall Arrest Blocks to enable easy retrieval of a victim of fall. These Blocks allow the fall to arrest and also allow easy hoist of the victim with the help of their inbuilt Winch mechanism when mounted on Megapods, Tripod, K-Pod using specialized brackets, etc.

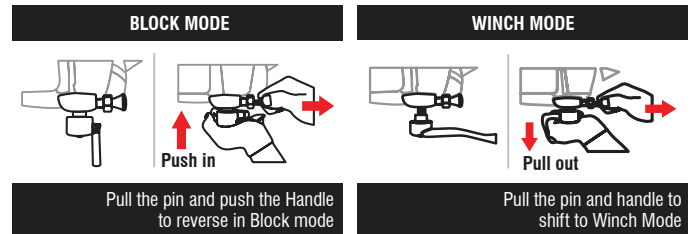


EN 360:2002
EN 1496:2017 Class B

GENERAL FEATURES

- Comes with Retractable Lifeline made of Galvanized Steel Wire Rope of dia 4.5mm.
- The locking pin on the side of the casing at the base of the handle allows this dual system to work in independent Fall Arrest and Winch modes.
- Comes with a unique Hydro seepage system to drain clogged water which accumulates in the block during usage.
- Comes with PN 162 Swivel Snap Hook with Impact Indicator.
- Certified to EN 360:2002 and EN 1496:2017 Class B, ATEX 2014/34/EU

IT IS EASY TO SHIFT TO WINCH MODE FROM BLOCK MODE (AND VICE VERSA) FOLLOWING THE BELOW STEPS



RETRACTABLE MODE- ENABLES EASY MOVEMENT OF THE USER WHILE WORKING IN CONFINED SPACE
WINCH MODE- ENABLES EASY RETRIEVAL OF THE VICTIM POST FALL ARREST

Wire Rope Length 20m



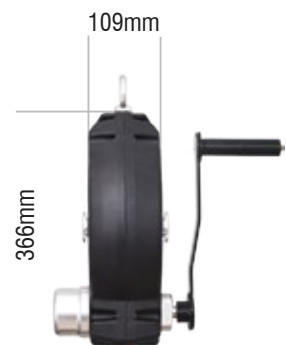
Ref. PCGS 20R(N) 9.41kg

Wire Rope Length 25m



Ref. PCGS 25R 14.1kg

Wire Rope Length 30m



Ref. PCGS 30R 14.15kg

NEW

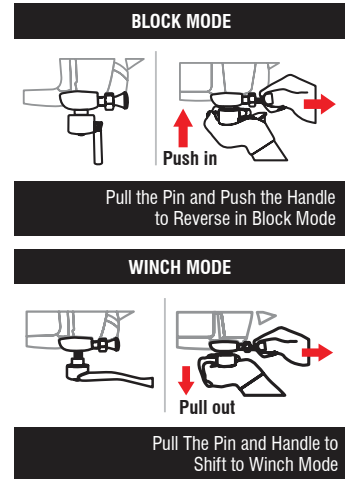
KORE-BLOCKS AND RETRIEVAL WITH SYNTHETIC TEXTILE ROPE RETRACTABLE LANYARD

KARAM Introduces KORE... a range of Retractable Fall Arrester Blocks with highly durable abrasion resistant rope which helps to resist abrasion and heat.



GENERAL FEATURES

- Light in weight and portable.
- These Blocks have been specially designed for workers working offshores, and in areas with an acidic environment or high temperature.
- Casing made up of high impact strength polymer to prevent breakage, making it nearly indestructible.
- Comes with abrasion resistant textile rope of dia 6.0mm
- Ref. PCSR 18R comes with a unique Hydro seepage system to drain clogged water which accumulates in the block during usage.
- Has Swivel Snap Hook PN 162 with impact indicator.
- Anchorage eye with swivel action. Prevents undue twisting of the rope while working or in the event of a fall.
- Minimum Breaking Strength > 15kN
- Ref. PCSR 18 is certified to EN 360:2002 and Ref. PCSR 18R is certified to EN 360:2002, EN 1496:2017 Class B and ATEX 2014/34/EU.



Ref. PCSR 18R enables easy retrieval of a victim of fall. This Block allows the fall to arrest and also allows easy hoist of the victim with the help of their inbuilt Winch mechanism.



RETRACTABLE BLOCKS IN ALUMINIUM CASING

KARAM also offers a range of Retractable Blocks in Aluminium Casing, having both Galvanized Steel Wire Rope Lanyard and 25mm Webbing Lanyard.



GENERAL FEATURES

- The casing is made of high strength Aluminium Alloy.
- The anchorage eye comes with a swivel action, preventing any undue twisting of the retracted lanyard (rope or webbing) while working, or in the event of the fall.
- Certified to EN 360:2002 and ATEX 2014/34/EU
- Retractable Block in Wire Rope Lanyard also certified to ATEX for use in potentially Explosive atmosphere as Directive 2014/34/EU.

Lanyard Length 4m-7.5m

Ref. ALWB 04	3.50kg
Ref. ALWB 05	3.54kg
Ref. ALWB 06	3.58kg
Ref. ALWB 7.5	3.64kg

Lanyard Length 8m-12m

Ref. ALWB 08	6.39kg
Ref. ALWB 10	6.47kg
Ref. ALWB 12	6.55kg

Wire Rope Length 4m-10m

Ref. ALGS 04	4.45kg
Ref. ALGS 05	4.63kg
Ref. ALGS 06	4.78kg
Ref. ALGS 7.5	5.05kg
Ref. ALGS 10	5.46kg

Wire Rope Length 12m-20m

Ref. ALGS 12	6.82kg
Ref. ALGS 15	7.06kg
Ref. ALGS 18	7.30kg
Ref. ALGS 20	7.46kg

► MINI BLOCK (SWIVEL)

Ref. PN 2002(SW)



EN 360:2002



Ref. PN 2002(SW)	1.40kg
------------------	--------

- Has a protective casing.
- Having a swivel arrangement at anchorage end with fall indicator.
- Has a retractable webbing of width 47mm.
- Maximum length: 2.5m.
- Incorporated with an Energy Absorber for shock absorption.
- Supplied with Steel Screw Locking Karabiner PN 112 at anchorage and attachment end.
- Minimum Breaking Strength > 15kN.
- Certified to EN 360:2002

KARAM Retractable Wire Rope Blocks are provided with a “Holding Snout” made up of soft Thermoplastic Elastomer:

The Snout minimizes the accidental locking of the Block when the wire rope is released suddenly.

The Holding Snout provides dampening of the impact experienced onto the Block casing when the Wire Rope is released suddenly. This prevents the Block to ‘lock’ accidentally in such cases, and allows better usage.

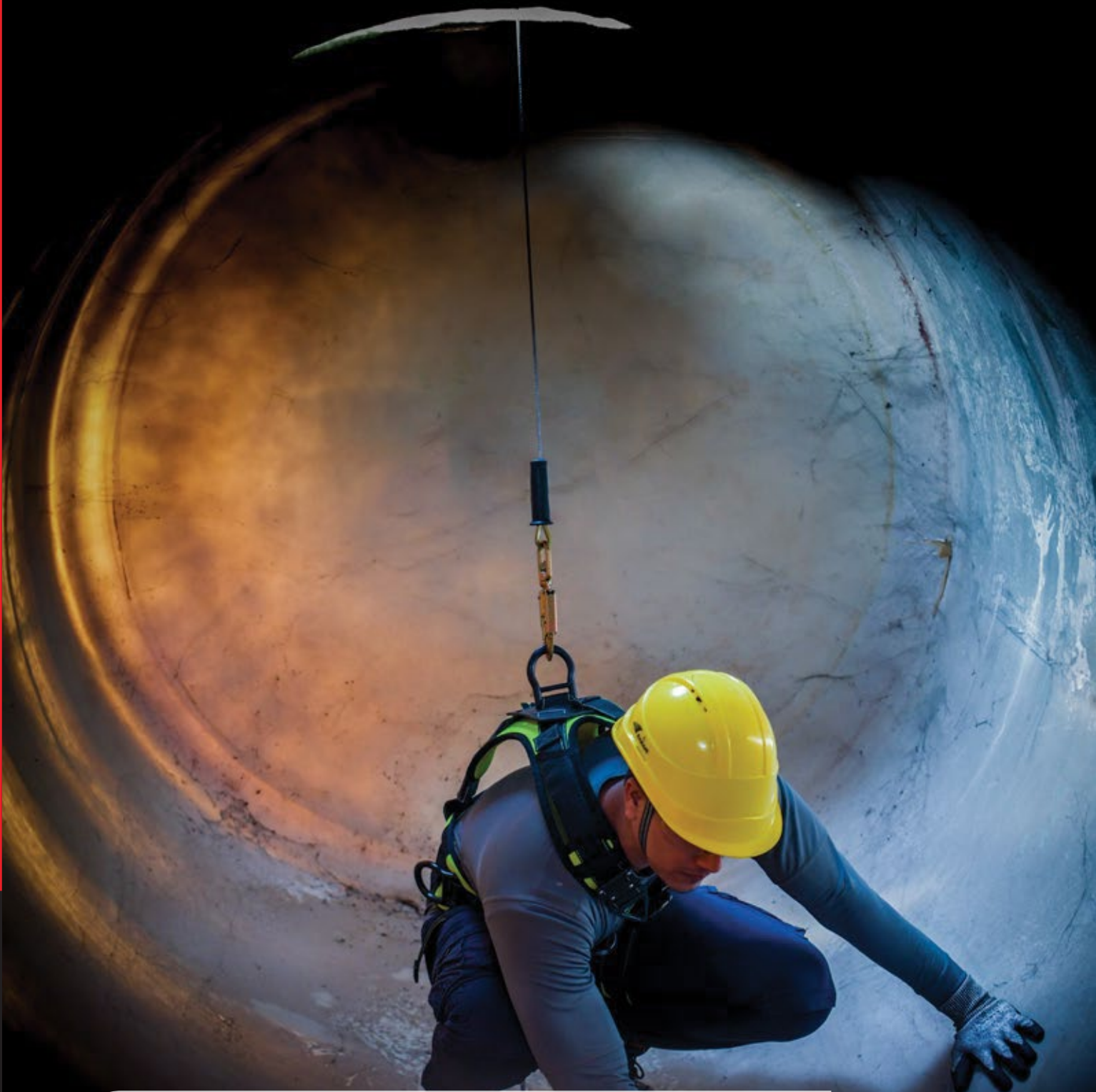


It allows a safer and more comfortable grip on the wire rope when the Block is inspected for retraction and locking prior to use.

It is mandatory to inspect the Block for its working (which includes retraction and locking of the Wire Rope) prior to each use. In the absence of the Holding Snout, a discomfort may be felt while retracting the wire rope to inspect the Block. The Holding Snout allows to grip the wire rope safely while testing the Block for locking and retraction without any discomfort.

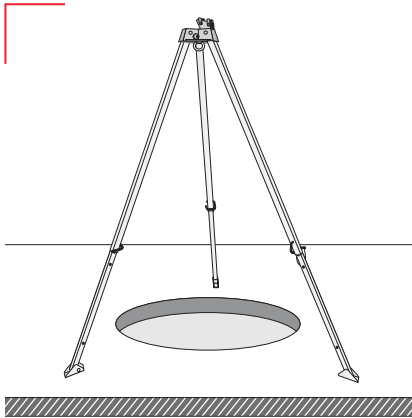


CONFINED SPACE ENTRY

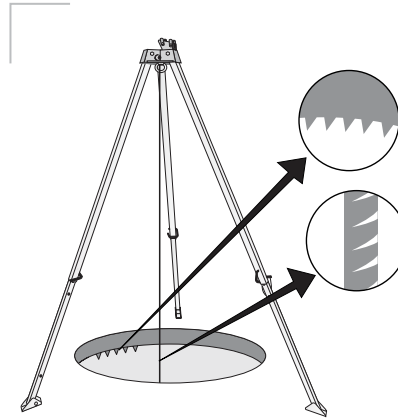


A particularly challenging area of activity is when the worker is required to move into confined spaces. KARAM provides equipment that allows easy overhead access in and retrieval of personnel and material from such confined space areas.

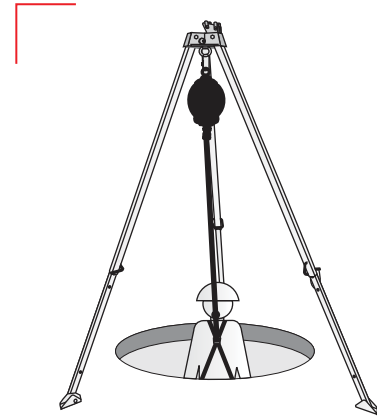
Points To Remember... While Using The Tripod



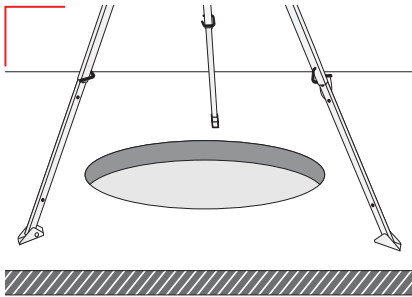
The Tripod must be mounted where it can be leveled using the leg adjustments.



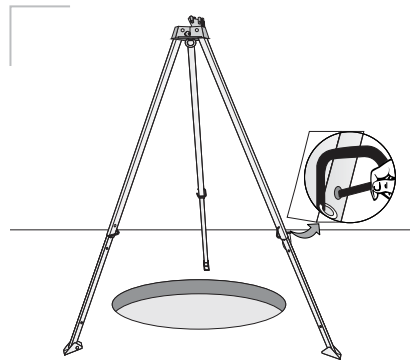
Avoid positioning the Tripod where the working line may abrade against sharp edges.



Position the Tripod such that the lifeline will be directly over the intended work area when installed.



The mounting surface onto which the Tripod is erected must meet minimum strength of static load of at least 12kN for Personnel Riding and Rescue.

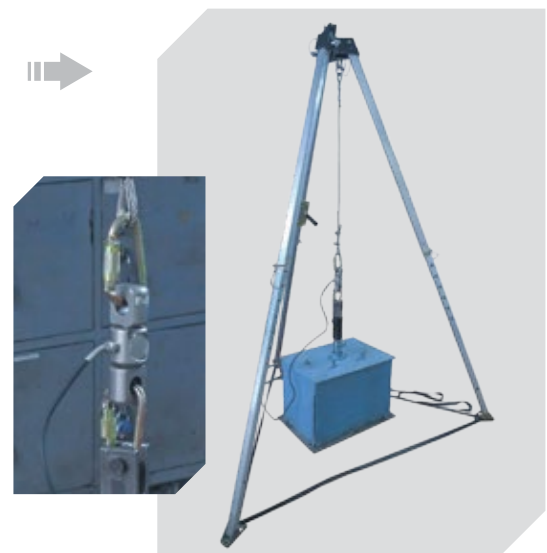


The pins on the legs of the Tripod must be securely locked for supporting the intended loading.



Never allow the working line to extend outside the legs of the Tripod as tripping of the tripod could occur.

Testing →



STATIC TEST OF TRIPOD

TESTED & CERTIFIED

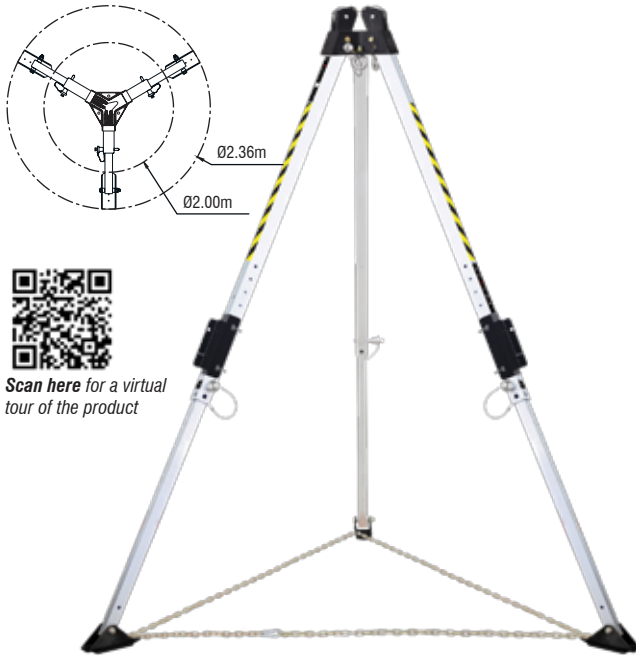


NEW ▶ **MEGAPOD**
Ref. SA 17



When it comes to confined space entry / rescue, it is essential that the equipment operates perfectly and quickly. Keeping this in mind, KARAM introduces Megapod: a convenient product that provides a stable overhead anchorage point.

The Megapod comes with wide and fully adjustable aluminium telescopic legs for use in particularly challenging areas of work eg. manholes, tanks etc.



Scan here for a virtual tour of the product

▶ **GENERAL FEATURES**

- Is equipped with high quality rugged systems that ensure superior performance.
- Made from Aluminium that makes it extremely light-weight and portable.
- Easily set-up by just one worker and can be transported from one work area to another.
- Consists of pre-installed universal mounting attachments to easily mount the Winch and Retrieval Block when used with SA 17(25) Winch Bracket and SA 17(26) Retrieval Bracket.
- Inner and outer adjustment can be achieved by sliding telescope legs.
- Can be used with all the Winches PN 801(DP), PN 817(DP), PN 801(40)(DP), PN 818(DP), PN 818SR(DP), PN 818(C)(DP) and Retrieval Fall Arrester Blocks PCGS 20R(N), PCGS 25R and PCGS 30R with the help of their universal mounting brackets for Winches and Retrieval Blocks respectively.
- Strength of anchor point is greater than 23kN.
- Comes with a sturdy bag to pack.



▶ Also available with wheels SA 17(W)7ft with locking feature for mobility and stability during usage.



- Double pulley system permanently incorporated in the cast aluminum head of the Megapod provides independent passing over of cable from a Winch and a Retrieval Block.
- 2 auxiliary eye bolts for easy over head anchorage.

Mounting brackets for Megapod	Picture	Bracket used for mounting
Ref. SA 17(25)		Winches PN 801(DP), PN 801(40)(DP), PN 817(DP), PN 818(DP), PN 818SR(DP), PN 818(C)(DP)
Ref. SA 17(26)		Retrieval Blocks PCGS 20R(N), PCGS 25R, PCGS 30R



▶ **FOOT REST**
Ref. PN 800(42)
Also available as an additional option. Can be installed on the leg of the Megapod for easy accessibility to the cast head for passing the wire through pulleys.

Technical Snapshot					
Ref.	Height	Wheelbase footprint (Ø)	Weight	Maximum load capacity	Certified to
SA 17(7ft)	7 ft	2.0m	19.0kg	500kg	EN 795:2012 Type B AS/NZS 5532:2013 Conforms to ANSI Z359.18-2017 Type A
SA 17(W)(7ft)	7 ft	2.0m	19.34kg		EN 795:2012 Type B



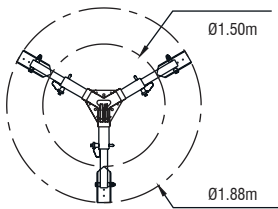
AS/NZS 5532:2013

EN 795:2012 Type B

▶ TRIPOD

Ref. PN 800 (DP)

Tripod is one such product that can be used for easy access by a worker into confined spaces such as man-holes, tanks, etc. It provides a means of controlled ascent and descent, as well as protection from fall, should the depth of the space require it.



Scan here for a virtual tour of the product



▶ GENERAL FEATURES

- Comes with double integral head mounted pulleys which are permanently incorporated in the cast aluminum head of the Tripod and provide independent passing over of cable from a Winch and a Retrieval Block.
- Consists of two auxiliary eye bolts as attachment points.
- Material of cast head and legs: Aluminium Alloy.
- Consists of Steel support-shoes provided with rubber sole to increase friction and impart more stability.
- Strength of anchorage point is greater than 23 kN.
- Every Tripod is provided with pre-installed universal mounting attachments to easily mount the Winch and Retrieval Blocks.
- Can be used with Winches PN 801(DP), PN 801(40) (DP), PN 817(DP), PN 818(DP), PN 818(SR)(DP), PN 818(C)(DP) when used with PN 800(44) Winch Bracket and Retrieval Blocks PCGS 20R(N), PCGS 25R and PCGS 30R when used with PN 800(45) Retrieval Bracket.
- Comes with a sturdy bag to pack.



▶ Ref. PN 800(DPW) 7ft PN 800(DPW) 10ft

Tripod with double pulley head 7ft and 10ft are also available with wheels having locking feature for mobility and stability during usage.



▶ FOOT REST


Ref. PN 800(42)

Also available as an additional option. Can be installed on the leg of the Tripod for easy accessibility to the cast head for passing the wire through pulleys.









Mounting brackets for Tripod	Picture	Bracket used for mounting
Ref. PN 800(44)		Winches PN 801(DP), PN 801(40)(DP), PN 817(DP), PN 818(DP), PN 818(SR)(DP), PN 818(C)(DP)
Ref. PN 800(45)		Retrieval Blocks PCGS 20R(N), PCGS 25R, PCGS 30R


Technical Snapshot					
Ref.	Height	Wheelbase footprint (Ø)	Weight	Maximum load capacity	Certified to
PN 800(DP)(7ft)	7 ft	1.5m	12.25kg	500 kg	EN 795:2012 Type B
PN 800(DP)(10ft)	10 ft	2.0m	16.9kg		EN 795:2012 Type B AS/NZS 5532:2013
PN 800(DPW)(7ft)	7 ft	1.5m	12.55kg		EN 795:2012 Type B
PN 800(DPW)(10ft)	10 ft	2.0m	17.2kg		

► **UNIVERSAL MOUNTING BRACKETS IN MEGAPOD(SA 17) AND TRIPOD (PN 800(DP))**





KARAM offers Universal Mounting Brackets in its range of Tripods and Megapods for ease and convenience of the user. The “One Bracket Fits all kind of Arrangements” has also been done to easily attach different variants of Winches and Retrieval Blocks on these Mounting Brackets.

TRIPOD Ref. PN 800(DP)			MEGAPOD Ref. SA 17		
					
Brackets used with Tripod variants			Brackets used with Megapod variants		
PN 800(44) Sub 1 	PN 800(44) 	PN 800(45) 	SA 17(25) Sub 1 	SA 17(25) 	SA 17(26) 
Part of standard Tripod	Part of standard Winch		Part of standard Megapod	Part of standard Winch	
Supplied with Tripod and Megapod	Yes	No	No	Yes	No
Can be Purchased Separately	Yes	Yes	Yes	Yes	Yes



Compatible with the following Products			Compatible with the following Products		
Tripods	Winches	Retrieval Blocks	Megapods	Winches	Retrieval Blocks
PN 800(DP) (7ft)	PN 801(DP)	PCGS20R(N)	SA 17 (7ft)	PN 801(DP)	PCGS20R(N)
PN 800(DP) (10ft)	PN 817(DP)	PCGS25R	SA 17 (10ft)	PN 817(DP)	PCGS25R
PN 800(DPW) (7ft)	PN 818(DP)	PCGS30R	SA 17W (7ft)	PN 818(DP)	PCGS30R
PN 800(DPW) (10ft)	PN 818(SR)(DP)		SA 17W (10ft)	PN 818(SR)(DP)	
	PN 818(C)(DP)			PN 818(C)(DP)	





NEW

➤ **HEXAPOD**

Ref. SA 43

KARAM offers Hexapod for entries in confined spaces which are below ground level and larger in hole size.



EN 795:2012 Type B
TS 16415:2013 Type B



NEW

➤ Ref. SA 43(W)
Hexapod is also available with wheels having locking feature for mobility and stability during usage.



NEW

➤ **FOOT REST**
Ref. PN 800(42)
Also available as an additional option. Can be installed on the leg of the Tripod for easy accessibility to the wire through pulleys.

➤ **GENERAL FEATURES**

- Specifically designed for entry, rescue and lifting into confined spaces with larger openings and below the ground level.
- Ideal for use in trenches, large holes, mines and lift shafts.
- Made from lightweight Aluminium Alloy.
- Mobile Roller Pulley used as an anchor to provide user mobility for a maximum of 2300 mm.
- Stopper to locate the anchorage point over the user's head on desired location of user.
- Can be used with three Aluminium Anchorage pulleys (AP 012SS) at the head of both the Tripods and Anchorage Pulley AP 017SS(BB) at the centre for guiding the cable of rescue Winch.
- Can be used by two users in case of rescue only.
- Has two auxiliary eye bolts in both the Tripods each as attachment-points.
- Steel Support Shoes provided with rubber sole to increase friction and impart more stability.
- Hexapod is provided with an inbuilt fixture for attaching our Winch PN 801A and Retrieval Blocks PCGS 20R(N), PCGS 25R and PCGS 30R with the help of mounting bracket PN 800(45).

Accessories to be purchased separately



Ref. PCGS 30R



Ref. PN 800(45)



Ref. PN 801A



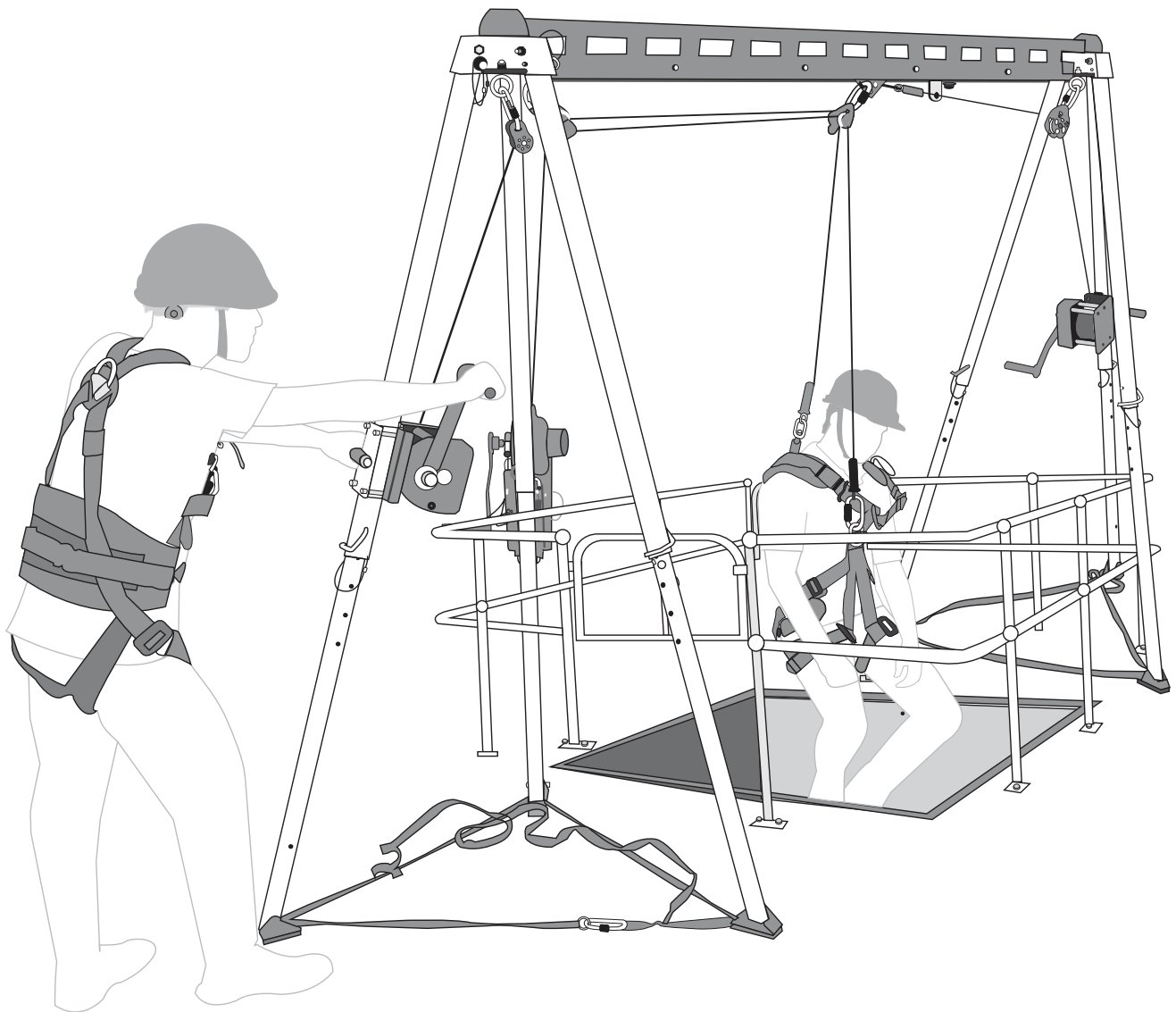
Ref. PN 112



Ref. AP 012(SS)



Ref. AP 017SS(BB)



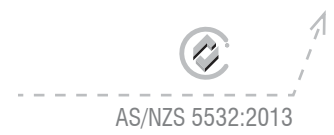
Example of Application

Technical Snapshot						
Ref.	Material	Height	Max. Span Length	Max. Load Capacity	Weight	Certified/Conforms to
SA 43	Tripod cast head and leg: Aluminium Alloy Rail supported welded sub assembly: High strength Alloy Steel Locking pins material: Stainless Steel	2.15 m	2300 mm	500 kg	51.29 kg	Certified to EN 795:2012 Type B TS 16415:2013 Type B
SA 43(W)					53.28 kg	Conforms to EN 795:2012 Type B TS 16415:2013 Type B

► **CANTILEVER K-POD**

Ref. PN 900

KARAM offers K-Pod which provides a safe and secure system for easy access to confined spaces. The K-Pod is an ideal choice to provide overhead anchorage which can be mounted on different bases.



Note: Winch and Retrieval Block are to be ordered separately

► **GENERAL FEATURES**

- Made of highly corrosion resistant stainless steel, and can swivel a complete 360 degrees on its mounted base, hence providing a versatile reach and access.
- Height of the Cantilever arm of the K-pod is adjustable at 3 defined points, with upper height adjustment of 2.3m, middle arm adjustment of 1.9m, and lower arm adjustment at 1.5m. This enables the use of the K-Pod even in those areas where the roof height is small.
- Can be easily mounted on the floor as well as on the wall through special floor and wall mounting brackets which are made available as per need. The K-pod can also be mounted on the floor of heavy vehicles, hence making it extremely versatile in use.
- Cantilever is equipped with universal mounting bracket PN 900(14) to install Winches PN 801(DP), PN 801(40) (DP) and PN 817(DP), PN 818, PN 818(DP), PN 818(SR)(DP) onto the K-Pod.
- Retrieval Fall Arrester Block Ref. PCGS 30R, PCGS 25R, PCGS 20R(N) can also be installed for easy retrieval and arresting the fall of the user using the specialized mounting bracket Ref. PN 900(06) and PN 900(07) respectively.
- Conforms to EN 795:2012 Type A and Certified to AS/NZ 5532:2013

ACCESSORIES OF K-POD



Floor mounting bracket
Ref. PN 900(01)



Wall mounting bracket
Ref. PN 900(02)

Setting	Upper	Middle	Lower
Distance from bar	0.72m	1.0m	1.08m
Height of arm	2.3m	1.9m	1.5m



Scan here for a virtual tour of the product

Mounting brackets for K-Pod	Picture	Bracket used for mounting
Ref. PN 900 (06)		25m Retrieval Block Ref. PCGS 25R, 30m Retrieval Block Ref. PCGS 30R
Ref. PN 900 (07)		20m Retrieval Block Ref. PCGS 20R(N)

► H-BASE DAVIT



AS/NZS 5532:2013 EN 795:2012

Ref. DA 01

KARAM Davit Arm is specially designed for confined space entry/rescue applications. It is ideal for providing portable, safe overhead anchorage in large confined areas like manholes, storage tanks etc. It also allows the user to adjust the height accordingly for overhead clearance restrictions.



Technical Snapshot

Material	High Strength and Durable Aluminium Alloy
Min- Max. Opening of H Base	Ø1100mm - Ø1510mm
Maximum Load Capacity	500 kgs
Finish	Powder Coated
System Strength	21kN
Weight	62.56 kgs ± 0.10 kgs

► APPLICATION

Public Utilities: Vault and manhole entry, pump / lift / valve stations, water treatment and wastewater industries.

General Industry (Food, Chemical, Pulp and Paper): Elevated manholes, storage tanks, platforms / mezzanines, underground vaults, clarifier tanks, pre-heaters.

► GENERAL FEATURES

- The system DA 01 breaks down into five components for easy storage, transport and set-up. No tools are required for assembly.
- The modular design allows the use of various fixed and portable bases and an optional mast with extensions.
- Cantilever arm comes with 3 adjustment positions for the user to adjust the height as per the requirement.
- Comes with foldable legs for easy transportation and installation purpose.
- Comes with multi anchorage point for rescue purpose.
- Comes with inbuilt swivel feature, Davit column assembly can be rotated even under load upto 360° by removing the locking pins provided to lock column and H-Base.
- Spirit Leveler in base assembly to check the accuracy of surface level and to make the davit balanced at time of installation.
- Comes with 2 Pre-installed lower mounting bracket assembly [DA 01(19)] for easy installation of Winch and Retrieval on Davit.
- Compatible with KARAM Winch PN 801(DP), PN 817(DP), PN 818(C)(DP), PN 818(DP) and PN 818SR(DP) and Retrieval Blocks PCGS 20R(N) and PCGS 30R.
- Retrieval Block can be mounted on column with bracket lower assembly by using universal mounting bracket SA 17(26).
- Certified to EN 795:2012 Type B and AS/NZS 5532:2013.

► **WINCHES**

Winches are the perfect solution for raising or lowering of personnel or material into confined spaces.



Ref. PN 801(DP)



Ref. PN 801(40)(DP)



Ref. PN 817(DP)



Ref. PN 818(C)(DP)



Ref. PN 818(DP)






Ref. PN 818(SR)(DP)

Technical Snapshot					
Ref.	Winch line material	Length of cable	Connector	Compatibility	Conforms to
PN 801(DP)	Galvanized Steel Wire Rope of dia 4.5mm	20.0m and 25.0m	Steel Screw Locking Karabiner PN 112	Can be mounted on Megapod, Tripods and K-pod with the help of their universal mounting brackets respectively.	EN 1496:2017 Class A
PN 801(40)(DP)		40.0m			
PN 817(DP)		20.0m	Steel Swivel Snap Hook PN 162		
PN 818(C)(DP)	Kernmantle Rope of dia 10.5mm	As per request	As per request	Can be mounted on Tripods.	EN 1496:2017 Class B
PN 818(DP)	Galvanized Steel Wire Rope of dia 6.0mm	35.0m	Steel Swivel Snap Hook PN 162	Can be mounted on Tripods, Megapods, Davit Arm and K-Pod.	EN 1496:2017 Class B
PN 818(SR)(DP)	Synthetic Rope of dia 6.0mm	35.0m			



Rope Access technique of movement on a rope would only be used when traditional access systems cannot be installed. The basic Rope Access equipment should be used with a Fall Protection System. Rescue technique is used in an emergency, so it is naturally the most sensitive. This intervention can either be performed by the user him/herself, if he/she is conscious and has the necessary equipment for self-extraction, or by a helper. In this situation, it is necessary to be able to reach the victim, release him/her in complete safety and move the person upwards or downwards.

Types Of Knots And Their Usage

Type of Knot	Usage	Advantages	Picture of Knot
Figure of 8	<ul style="list-style-type: none"> For belay setups during mountaineering, for rescue, or as a backup for ascending the rope. 	<ul style="list-style-type: none"> One of the strongest knots. Secure, non-slip knot. Can be tied with gloves on. Easy to Inspect. 	
Bunny Knot	<ul style="list-style-type: none"> Can be used to attach to a victim so that he/she may be pulled in an upright position when connecting to both ventral and sternal harness attachment points. The double loop at the end of the rope enables the knot to attach to two separate anchors and can equalize the force on both. 	<ul style="list-style-type: none"> Can be tied with gloves on. Easy to Inspect. 	
Alpine Butterfly	<ul style="list-style-type: none"> To be used in conjunction with a Figure of 8 in the middle of the rope to form a fixed loop. Suitable for multi-directional loading, isolating damaged sections of the rope. 	<ul style="list-style-type: none"> Forms stable, secure loop after initial setting. Easy to untie after loading. Size of the loop can be adjusted more easily. Easy to Inspect. Can be tied with gloves on. 	

Testing →



STATIC TEST OF PULLEY

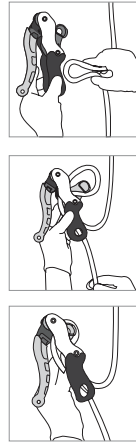
TESTED & CERTIFIED



UAAA



Installation Steps



Scan here for a virtual tour of the product

GRIP DESCENDER

Ref. PN 401

➤ **IDEAL FOR USE**

For descent on a single rope.

➤ **GENERAL FEATURES**

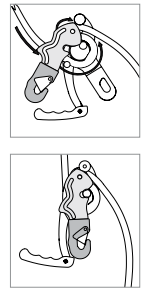
- It is equipped with a unique self-braking system that initiates the brake as soon as the handle is released or clasped too tightly.
- Equipped with polymer-coated cover to protect the user from the heat generated during descent.



EN 341:2011 Type 2 Class A
EN 12841:2006 Type C



Installation Steps



Scan here for a virtual tour of the product

DESCENDER - JUMPER

Ref. PN 410

➤ **IDEAL FOR USE**

For ascent and descent on a single rope.

➤ **GENERAL FEATURES**

- Equipped with a unique self-braking system that initiates the brake as soon as the handle is released or clasped too tightly.
- It is provided with a safe locking eye which prevents the rope from sliding out when operating as a descender.
- Has polymer-coated cover for comfort and ease during descent.



EN 341 Type 2 Class B
EN 12841:2006 Type C

Technical Snapshot

Ref.	Material	Works on	Weight	Finish	Certified to
PN 401	Aluminium Alloy	10.0mm - 12.0mm dia Kernmantle Rope as per EN 12841:2006 Type C and on 11.0mm dia Kernmantle Rope as per EN 341:2011 Type 2 Class A	340.0gm	Coloured, Anodized	EN 341:2011 Type 2 Class A EN 12841:2006 Type C
PN 410		10.5mm-12.0mm dia Kernmantle rope for EN 12841:2006 Type C and on 11.0mm dia Kernmantle Rope as per EN 341:2011 Type 2 Class B	440.0gm		EN 341 Type 2 Class B EN 12841:2006 Type C

Example of Application



FIGURE OF 8

Ref. PN 431

➤ **IDEAL FOR USE**

As a component of a rope descent system.

➤ **CONFORMS TO**

EN 15151-2:2012

Technical Snapshot

Ref.	Material	Inner dia	Height	Weight	Minimum breaking strength	Weight holding capacity	Finish
PN 431	Aluminium Alloy	Big: 52mm Small: 26mm	145mm	136.0gms	50 kN	Upto 136.0kgs	Natural Silver, Coloured, Anodized

Example of Application



ROPE CLAMP

Ref. PN 402(R), PN 402(L)

➤ **IDEAL FOR USE**

During ascent and occasionally for hauling.

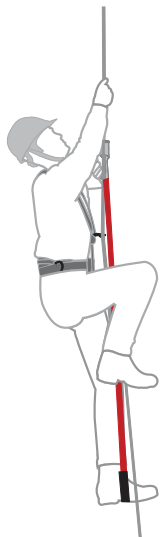


EN 567:2013

Technical Snapshot

Ref.	Material	Weight	Works on	Finish	Certified to
PN 402(L) PN 402(R)	Aluminium Alloy	195.0gms	10.0mm to 12.0mm dia Kernmantle Rope	Coloured, Anodized	EN 567:2013

Example of Application



➤ **ADJUSTABLE WEBBING FOOT LOOP**

Ref. PN 402(A)

➤ **IDEAL FOR USE**

With ascending Rope Clamp for rope ascents.

➤ **GENERAL FEATURES**

- Material: 44mm polyester webbing.
- Underfoot strap is abrasion-resistant and is slightly rigid to make it easier to step into.
- Length easily adjusted with the combination buckles.

NEW



➤ **WEBBING COW'S TAIL**

Ref. PN 401(W)

It is made of polyester webbing of length 20 cm having loops for attachment.

➤ **IDEAL FOR USE**

To anchor a victim of fall to the rescuer during rescue.



➤ **ROPE CLAMP**

Ref. PN 405

➤ **IDEAL FOR USE**

During ascent and occasionally for hauling.

➤ **GENERAL FEATURES**

- Easy connection on user Harness by webbing strap or a connector.
- Can be attached to a Kernmantle Rope and will lock under load in one direction and slip freely in opposite direction.



EN 567:2013

Technical Snapshot

Ref.	Material	Weight	Works on	Finish	Certified to
PN 405	Aluminium Alloy	157.0gms	10.0 to 12.0mm dia Kernmantle Rope	Coloured, Anodized	EN 567:2013



► **RIGGING PLATE**

Ref. PRP01

KARAM Rigging Plate is designed to organize and provide multiple anchor points in multiple directions for superior versatility. Eye of the plate can be connected to the Karbiners with diameter of 19mm.

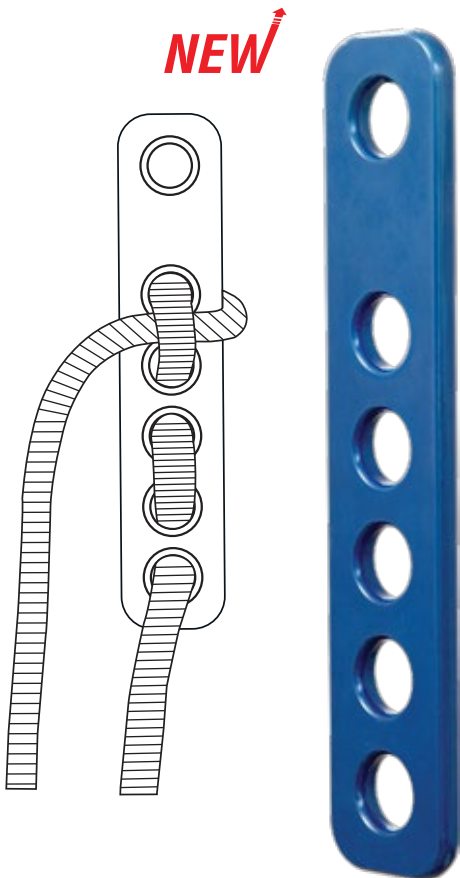


NEW



Technical Snapshot	
Ref.	PRP01
Material	Aluminium Alloy
Weight	53.5gms
Minimum Breaking Strength	45kN
Finish	Natural Silver / Coloured Anodized
Certified to	VG 11 CNB/P/11.114

NEW



ROPE TERMINATION ANCHOR

Ref. ARC 04

Rope Termination Anchor is an ideal choice to terminate 16mm textile rope Lifelines. It is used to integrate an anchorage connector with a Vertical Lifeline System.

► **APPLICATION**

Is best suited for constructions, manufacturing, spray painting, welding, mining, oil and gas, chemical, electric utility, telecommunications, general industry, automotive, scaffolding etc.

► **GENERAL FEATURES**

- Light in weight.
- Extremely easy to use. This Anchor has a total of six holes. The top hole constitutes the connection point to the anchorage. The rope is threaded in the other five holes. It has to be connected to an anchor point using an Auto Locking Karabiner.
- Eliminates the need for Knots, splicing or swaging.
- Provides Convenient lifeline connection point.
- Allows installations without a traditional anchorage point.
- Is reusable.
- Stays tight, while always remaining simple to untie.

Technical Snapshot					
Ref.	Material	Weight	Minimum Breaking Strength	Finish	Certified to
ARC 04	Aluminium Alloy	248.5gms	23kN	Natural Silver / Coloured Anodized	VG 11 CNB/P/11.114



► PULLEYS



**STEEL SINGLE PULLEY
SINGLE SIDE
ATTACHMENT**

Ref. AP 001



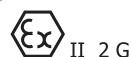
**STEEL SINGLE PULLEY
DOUBLE SIDE
ATTACHMENT**

Ref. AP 002



**ALUMINIUM SINGLE
PULLEY SINGLE SIDE
ATTACHMENT**

Ref. AP 011



NEW



**ALUMINIUM SMALL
SINGLE PULLEY
SINGLE SIDE
ATTACHMENT**

Ref. AP 011A

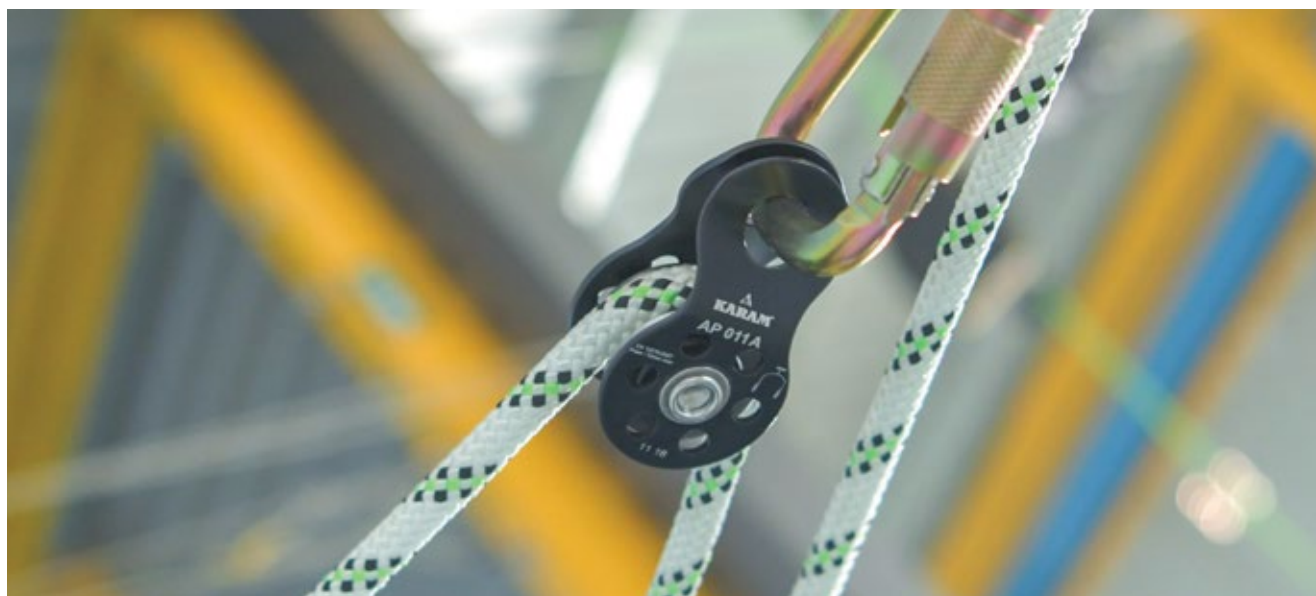


U I A A EN 12278:2007

Technical Snapshot

Ref.	Material	Works on	Weight	Minimum Breaking Strength	Finish	Certified to
AP 001	Alloy Steel	Rope of dia 12.0mm	410.0gms	30kN	Silver or Golden Yellow Galvanized	NA
AP 002			500.0gms			
AP 011	Aluminium Alloy		90.0gms		Natural Silver / Coloured Anodized	ATEX 2014/34/EU
AP 011A	Aluminium Alloy/ Stainless Steel		165.0gms			EN 12278:2007 UIAA 127

Example of Application





NEW



**ALUMINIUM SINGLE PULLEY
SINGLE SIDE ATTACHMENT**

Ref. AP 012



**ALUMINIUM DOUBLE PULLEY
DOUBLE SIDE ATTACHMENT**

Ref. AP 013

NEW



**ALUMINIUM SINGLE PULLEY
DOUBLE SIDE ATTACHMENT**

Ref. AP 014

Technical Snapshot

Ref.	Material	Works on	Weight	Minimum Breaking Strength	Finish	Certified to
AP 012	Aluminium Alloy	Rope of dia 16.0mm	230.0gms	36kN	Natural Silver / Coloured Anodized	EN 12278:2007 ATEX 2014/34/EU
AP 013			410.0gms			
AP 014			275.0gms			EN 12278:2007

➤ **ABOVE PULLEYS ARE AVAILABLE IN 3 DIFFERENT VARIANTS AS UNDER**



Technical Snapshot

Ref.	Bearing Type	Sheave Material	Weight	Certified to
AP 012(BB)	Ball Bearing	Aluminium Alloy	290.0gms	EN 12278: 2007
AP 012(SS)(BB)	Ball Bearing	Stainless Steel	410.0gms	
AP 012(SS)	Dry Bearing	Stainless Steel	430.0gms	
AP 013(BB)	Ball Bearing	Aluminium Alloy	520.0gms	
AP 013(SS)(BB)	Ball Bearing	Stainless Steel	770.0gms	
AP 013(SS)	Dry Bearing	Stainless Steel	810.5gms	
AP 014(BB)	Ball Bearing	Aluminium Alloy	330.0gms	
AP 014(SS)(BB)	Ball Bearing	Stainless Steel	450.0gms	
AP 014(SS)	Dry Bearing	Stainless Steel	471.0gms	





NEW



DOUBLE TANDEM PULLEY BIG WITH SS SHEAVES

Ref. AP 015

NEW



DOUBLE TANDEM PULLEY SMALL WITH SS SHEAVES

Ref. AP 016



NEW



DOUBLE TANDEM PULLEY SMALL WITH MANGANESE BRONZE SHEAVES

Ref. AP 016A

NEW



ALUMINIUM DOUBLE PULLEY DOUBLE SIDE ATTACHMENT

Ref. AP 017(SS)(BB)

NEW



ALUMINIUM SINGLE PULLEY DOUBLE SIDE ATTACHMENT

Ref. AP 025

Technical Snapshot

Ref.	Material	Works on	Weight	Minimum Breaking Strength	Finish	Certified to
AP 015	Side cover: Aluminium Alloy Sheaves: Stainless Steel	Synthetic Rope / Wire of dia 16.0mm	810.0gms	45kN	Natural Silver / Coloured Anodized	EN 12278:2007
AP 016		Rope / Wire of dia 12.0mm	320.0gms			EN 12278:2007 ATEX 2014/34/EU UIAA
AP 016A		Rope / Wire of dia upto 12.0mm	325.0gms			EN 12278:2007 UIAA
AP 017(SS)(BB)	Side cover: Aluminium Alloy Sheaves: Stainless Steel	Rope of dia 12.0mm	262.0gms	25kN	Covers-Anodized sheaves-Polished	EN 12278:2007 UIAA
AP 025	Side cover: Aluminium Alloy Sheaves: Stainless Steel	Rope of dia 12.0mm	165.0gms	25kN	Covers-Anodized sheaves-Polished	EN 12278:2007



NEW



RATCHET HAULING SYSTEM

Ref. PN 411

➤ **IDEAL FOR USE**

For rescuing the victim post fall arrest.

➤ **GENERAL FEATURES**

- Loops provided on both the ends for making connections with the structure and other sub systems.
- Consists of ratchet locking system to allow motion in only one direction and locks in the other direction.

➤ **INSTALLATION**

- Connect the Ratchet Hauling System to the structure with its one loop with means of a Connector / Karabiner at appropriate height.
- Connect the other loop of the Ratchet Hauling System to the victim with automatic Descender and a Connector.
- Now, the victim may be rescued with the help of hauling features of the device.
- Once the victim has been put fully on Ratchet Hauling System, primary Lanyard may be released.



Scan here for a virtual tour of the product

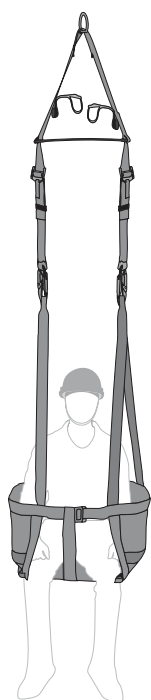
Technical Snapshot

Ref.	Material	Weight	Finish	Conforms to
PN 411	Alloy steel	1.12kg	Galvanized steel in yellow passivation.	EN 1496:2017 Class A

ACCESSORIES

KARAM also provides equipment which when used, aid in easy rescue and rope access operations.

NEW



Example of Application



➤ **SPREADER BAR**

Ref. IMP 003

➤ **IDEAL FOR USE**

- In conjunction with the KARAM Harness for raising and lowering a person during rescue.
- The attached webbing loops can be used to secure victim's arms when lifting or lowering.



➤ **SPREADER BAR**

Ref. IMP 005(01)

Is available as an optional Accessory to the Pilot Chair, provided on request.



➤ **PILOT CHAIR**

Ref. IMP 005

➤ **IDEAL FOR USE**

Vertical ascent and descent.

➤ **GENERAL FEATURES**

- Ergonomic and comfortable working chair.
- Spreader Bar available as an optional accessory.
- **Conforms to EN 1498:1996.**



Example of Application



➤ **EVACUATION TRIANGLE**

Ref. PN 852

➤ **IDEAL FOR USE**

During rescue of injured personnel.

- Contains 3 metallic D-rings as attachment elements.



➤ **EASY SEAT**

Ref. IMP 004

➤ **GENERAL FEATURES**

- Ergonomical and comfortable working chair. Provides comfortable seating for an extended time during long hours of work, suspended at a height.
- Can be attached to Harnesses Magna 3, PN 56 and PN 57 having a central D-Ring at the waist level (Ventral) to which the Karabiner is attached.
- The aluminium reinforcement in the easy seat makes it robust yet light in weight, weighing not more than 1300 gms.
- The loops at the end of the polyester webbing straps can be easily attached to the Ventral D-ring of the Harnesses mentioned.
- Has adjustable straps.
- Equipped with 3 loops for hanging tools, bucket etc.
- Easy to position at the back when not in use.
- Soft cushioned sides prevent the webbing straps from cutting into the thighs.

Technical Snapshot

Ref.	Webbing			Metal components		
	Material	Width	Breaking strength	Material	Finish	Weight
IMP 004	Polyester	44.0±1.0mm	23kN	Aluminium Alloy	Anodized	609.0gms±10gm



► **RESCUE CHAIR**

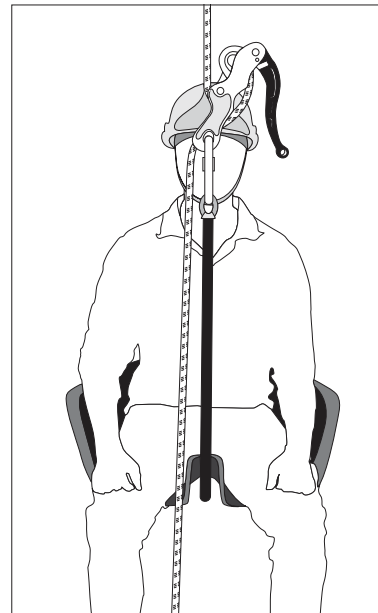
Ref. IMP 007EC
(with steel components)

The light weight and comfortable Rescue Chair is made from fiber glass sheet for vertical ascent and descent.



Come with Special horns on which the user can roll the rope for increasing the friction and locking his position while doing work positioning.

Example of Application



Material

Rescue Chair - High strength Steel frame and a fiber glass sheet;
Metal component - High strength Steel.

Finish

- Hot dipped galvanized / black powder coated.
- Forged stainless steel eye for anchorage.

➤ KARAM RESPAC RECOVERY STRETCHER

Ref. PN 403

The back-packable KARAM Respac Recovery Stretcher has been configured as an extremely flexible rescue system. It can be used in any situation where a patient needs to be transported. It is particularly effective in morphological and difficult climatic conditions for a fast recovery.



Scan here for a virtual tour of the product

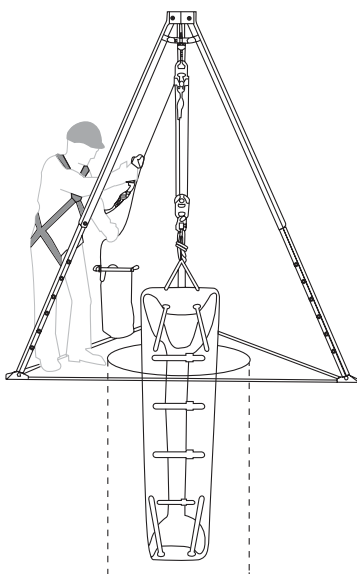


➤ IDEAL FOR USE

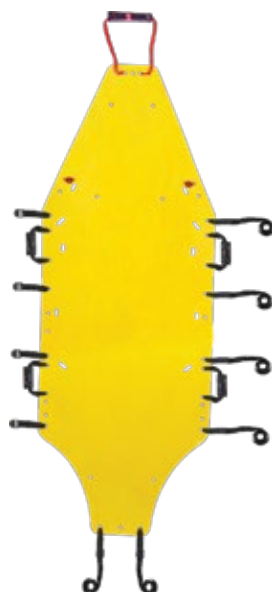
For safe carriage and transportation of the wounded user.

➤ GENERAL FEATURES

- Inert to all conditions, body fluids and blood.
- Highly durable, easy to use and store.
- Combination of optimum support and function.
- Can be used both vertically as well as horizontally.
- Comes with a special marking for identifying the head position of the victim when laid on the stretcher.
- Has instruction labels consisting of technical description, usage instructions, general guidelines, care and maintenance and inspection grid for giving more comprehensive information of the Stretcher to the user.



Example of Application



Technical Snapshot
Maximum load: 200kg Weight of device: 5.5kg Total weight with bag and belts: 8.0kg
Loading Surface
Length: 8.0ft. Width: 3.0ft. Material: High strength polymer Material of Hooks: Alloy steel
Rope
Length: 9.0m Dia: 10.0mm
Lifting Belts
Length: Feet zone 6.7 ft./ Head zone 6.4ft Width: Feet zone 5mm/ Head zone 5mm Maximum load belts: 3000 kg Maximum load Stitching: 2000 kg
Handles
Material: Polyester Number of handles on every longitudinal side: 2

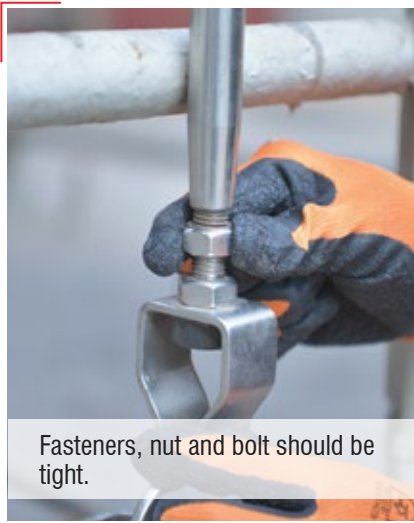


FIXED LINE SYSTEMS

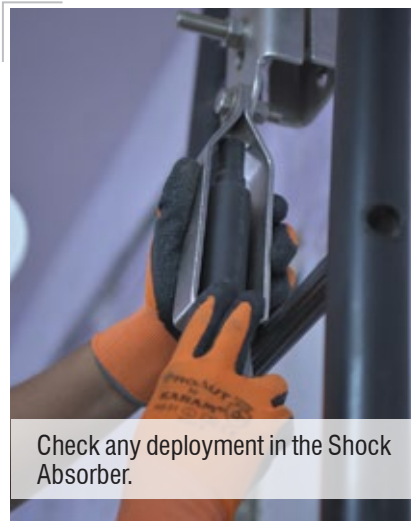


KARAM provides a vast range of permanent Vertical and Horizontal Anchorage Lines, Conforming to EN 353-1:2014+A1:2017 for Vertical Lifeline Systems and EN 795:2012 TypeC and TS16415:2013 for Horizontal Lifeline Systems. These systems are corrosion resistant and can be fixed on various structures to provide safe anchorage for an extended period of time.

Points to remember before using a Vertical / Horizontal Anchorage Lifeline



Fasteners, nut and bolt should be tight.



Check any deployment in the Shock Absorber.



Enough tension is achieved in the wire rope.



Check for the deformation in any component of the system.



Check the condition of PPEs.



Inspect the Carriage Body.

- Harness not to be hanged on Retractable Fall Arrester Blocks after usage of the lifeline.
- Retractable Fall Arrester Block lanyard not to be released faster.
- Retractable Fall Arrester Blocks lanyard not to be pulled out and tied on some anchor.
- In an event of a fall in the system, report to KARAM representative or KARAM Authorized Service Centre.

Testing →



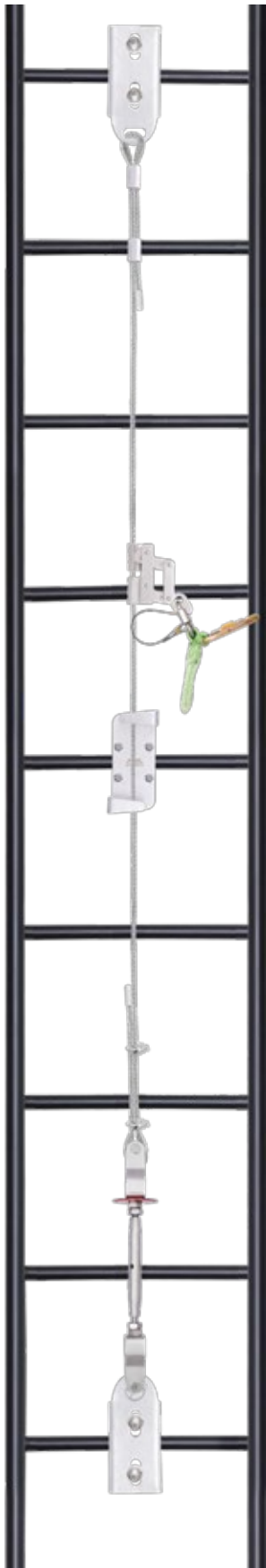
DYNAMIC TEST

TESTED & CERTIFIED



▶ VERTICAL ANCHORAGE LINE SYSTEM ON RIGID CABLE LINE

NEW



**Extension Arm
Ref. PN 7000(06)**

Ref. Vertex PN 6000

PN 6000 is an integrated solution to arrest the fall of a user who has to constantly climb up and down a ladder.

▶ IDEAL FOR USE

Telecom towers, radio and TV mast, power supply and hydroelectric installations, industrial chimney, wind power facility, construction sites etc.

▶ GENERAL FEATURES

- MOC: Stainless Steel SS 316.
- Installation is simple and easy, requiring minimum effort.
- The Rope Grab comes with special anti-inversion mechanism which enables it to always be fitted in the correct position.
- Intermediates to reduce vibration and proper alignment of wire rope at every 10m.
- Certified to EN 353-1:2014+A1:2017



EN 353-1:2014+A1:2017

Product	Product Name	Ref.	Features
	Intermediate	PN 2001(04)	<ul style="list-style-type: none"> • Material: Stainless Steel Grade 316 • Recommended Installation-Every 10.0m
	Set of 2-U Bolts, 1 wire rope cap and 1 Thimble	PN 6000(01)	<ul style="list-style-type: none"> • U-Bolts: Qty- 2 nos. • Material: Stainless Steel 316 • Thimble: Qty- 1 no. • Material: Stainless Steel 316
	Wire crimping assembly	PN 7000(14)	<ul style="list-style-type: none"> • Thimble: Qty-1 no. • Ferrule: Qty-2 nos. • Aluminum wire rope cap: Qty-1 no.
	Mounting Bracket	PN 7000(01)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Breaking Strength: 23 kN • Complies with EN 795 Type A
	Tensioner	PN 7000(05)	<ul style="list-style-type: none"> • Regulates tensioning of the cable. Equipped with a Tension Indicator • Material: Stainless Steel Grade 316 • Quantity: 1 nos.
	Rope Grab	RG 02S (PN 600(S)) 112	<ul style="list-style-type: none"> • Material of Rope Grab: Stainless Steel Grade 316 • Anti inversion mechanism • Material of Karabiner: Alloy Steel
	Wire Rope (Cable Wire)	PN 9XXXS	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Diameter: 8mm • Construction: 7x19
	D-shackle	PN 4000MU(02.5)(D)	<ul style="list-style-type: none"> • Material Stainless Steel 316
	Inspection Plate	PN 6000(03)	<ul style="list-style-type: none"> • For identification traceability and maintenance of implementation records.
	Optional: Mounting Brackets	PN 7000(13): Material: Stainless Steel PN 7000(13)(EC): Material: Alloy Steel with black ED coating	



Ref. Vertex PN 7000

PN 7000 is an integrated solution to arrest the fall of a user who has to constantly climb up and down a ladder.

➤ **IDEAL FOR USE**

Telecom towers, radio and TV mast, power supply and hydroelectric installations, industrial chimney, wind power facility, construction sites etc.

➤ **GENERAL FEATURES**

- MOC: Stainless Steel SS 316.
- Permanently installed Stainless Steel Shock Absorber at the top of the line which offers distinct advantage over the textile absorber used in other lines in term of UV degradation and resistance to harsh climate conditions.
- Shock Absorber is constructed of a unique design that helps in easy installation of the system.
- Intermediates to reduce vibration and proper alignment of wire rope at every 10m.
- Certified to EN 353-1:2014+A1:2017



Extension Arm
Ref. PN 7000(06)

EN 353-1:2014+A1:2017

Product	Product Name	Ref.	Features
	Intermediate	PN 2001(04)	<ul style="list-style-type: none"> • Material: Stainless Steel Grade 316 • Recommended Installation-Every 10.0m
	Set of 2-U Bolts, 1 wire rope cap and 1 Thimble	PN 6000(01)	<ul style="list-style-type: none"> • U-Bolts: Qty- 2 nos. • Material: Stainless Steel 316 • Thimble: Qty- 1 no. • Material: Stainless Steel 316
	Mounting Bracket	PN 7000(01)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Breaking Strength: 23 kN • Complies with EN 795 Type A
	Shock Absorber	PN 7000(02)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Limits the impact of force in the event of fall to less than 6kN
	Tensioner	PN 7000(05)	<ul style="list-style-type: none"> • Regulates tensioning of the cable. Equipped with a Tension Indicator • Material: Stainless Steel Grade 316 • Quantity: 1 nos.
	Wire crimping assembly	PN 7000(14)	<ul style="list-style-type: none"> • Thimble: Qty-1 no. • Ferrule: Qty-2 nos. • Aluminum wire rope cap: Qty-1 no.
	Rope Grab	RG 02 (112)	<ul style="list-style-type: none"> • Material of Rope Grab: Stainless Steel 316 • Anti inversion mechanism • Material of Karabiner: Alloy Steel
	Wire Rope (Cable Wire)	PN 9XXXS	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Diameter: 8mm • Construction: 7x19
	D-shackle	PN 4000MU(02.5)(D)	<ul style="list-style-type: none"> • Material Stainless Steel 316
	Inspection Plate	PN 7000(16)	<ul style="list-style-type: none"> • For identification traceability and maintenance of implementation records.
	Optional: Mounting Brackets	PN 7000(13): Material: Stainless Steel PN 7000(13)(EC): Material: Alloy Steel with ED coated (black)	



Scan here for a virtual tour of the product

▶ VERTICAL ANCHORAGE LINE SYSTEM ON RIGID ALUMINIUM RAIL

Ref. Vertex PN 8000

PN 8000 is an integrated Fall Arrest solution made of a Vertical Aluminium Alloy Guide Rail over which glides a Guided-Type Fall Arrest Trolley.

▶ IDEAL FOR USE









Telecom towers, radio and TV mast, power supply and hydroelectric installations, industrial chimney, wind power facility, construction sites etc.

▶ GENERAL FEATURES

- Corrosion free anodized Aluminium Rail.
- The line consists of the Trolley which has an inbuilt shock absorption feature.
- Can negotiate bends
- Locking jibs at either end for unintentional release of trolley from the rail.
- The Rail comes with an Extension Arm that curves at the Ladder end over the working platform for safe access.
- Certified to EN 353-1:2014+A1:2017



EN 353-1:2014+A1:2017

Product	Product Name	Ref.	Features
	Karabiner	PN 111(C)	<ul style="list-style-type: none"> • Quarter Turn Auto-locking Steel Karabiner • Material: Alloy Steel
	Aluminium Rail Intermediate	PN 5000(01)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy • Length: 3.0m
	Aluminium Rail Extremity	PN 5000(02)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy. Locking Jib to prevent unintentional release of trolley from the rail • Length: 3.0m
	Junction	PN 5000(08)	<ul style="list-style-type: none"> • Used to connect two rails together • Junction Material: Aluminium • Fasteners Material: Stainless Steel
	Vertical Trolley	PN 8000(01)	<ul style="list-style-type: none"> • Material: Stainless Steel (316) Trolley with Brass wheel which provides frictionless movement • Anti Inversion Pin
	Alu Extension	PN 8000(02)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy • Length: 1.5m
	Rung Clamp	PN 8000(03)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Helps to Clamp the system onto the underlying ladder
	Inspection Plate	PN 8000(09)	<ul style="list-style-type: none"> • For identification, traceability and maintenance of implementation records.





Option of Half Rungs Ladder PN 9000(HR) also available.
Ladder Rung Material: CED coated(black)



Scan here for a virtual tour of the product

Ref. Vertex PN 9000

This is a complete Fall Protection Ladder System which consists of CED coated(black) Steel Ladder Rungs over which the Vertical Anchorage Rail made of anodized Aluminium is fixed.

➤ **IDEAL FOR USE**

In areas where no pre-fabricated ladders or climbing structures are available for climbing.

➤ **GENERAL FEATURES**

- Continuous ladder with fall protection.
- Can be fitted over various structures using different types of brackets and fasteners.
- Corrosion free anodized Aluminium Rail.
- CED coated(black).
- The line consists of the trolley which has an inbuilt shock absorption feature.
- Locking jibs at either end for unintentional release of trolley from the rail.
- Can negotiate bends
- The Rail comes with an Extension Arm that curves at the Ladder end over the working platform for safe access.
- Certified to EN 353-1:2014+A1:2017



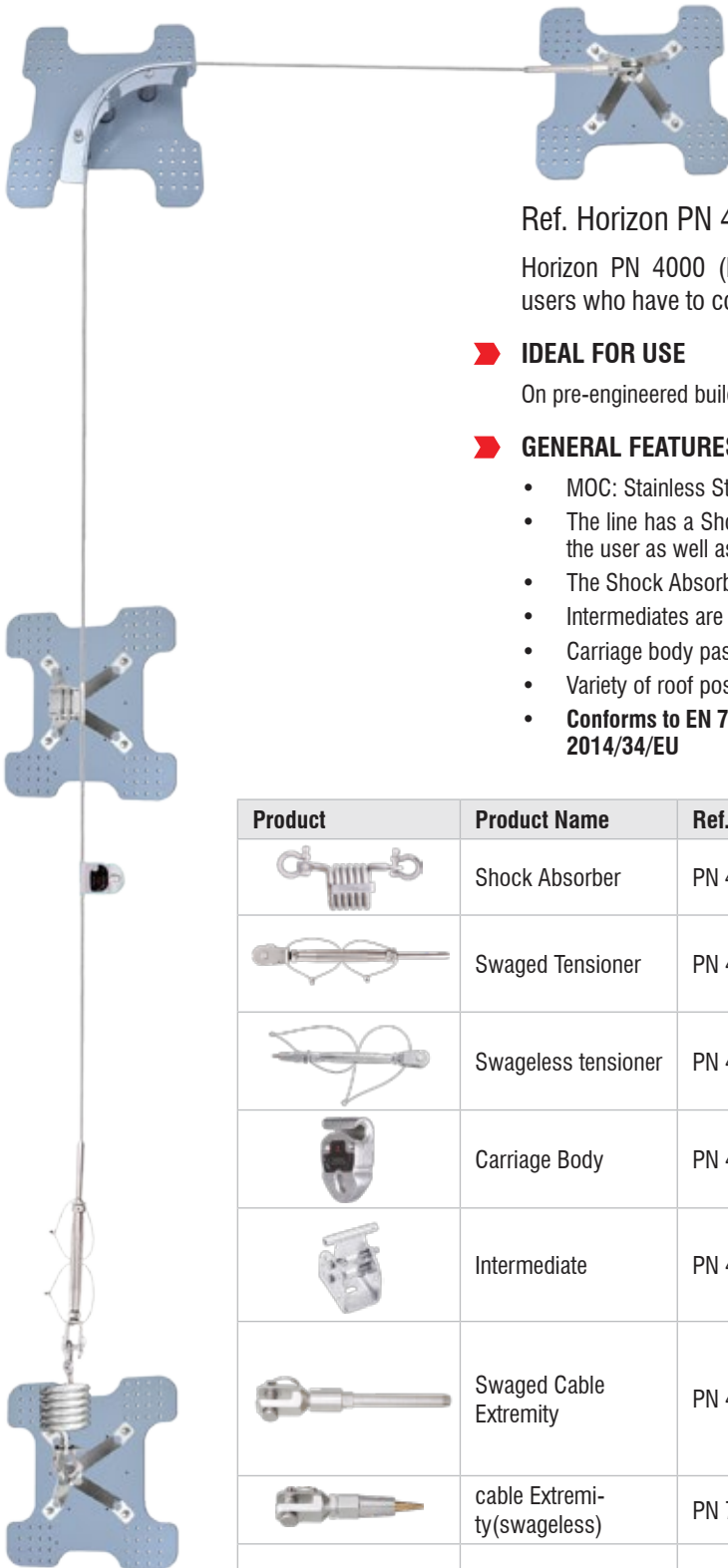
EN 353-1:2014+A1:2017

Product	Product Name	Ref.	Features
	Karabiner	PN 111(C)	<ul style="list-style-type: none"> • Quarter Turn Auto-locking Steel Karabiner • Material: Alloy Steel
	Stainless Steel Mounting Nut	PN 5000(03)	<ul style="list-style-type: none"> • To connect the rail to the mounting Bracket • Material: Stainless Steel 316 • Also available in Galvanized Steel version Ref. PN 5000(06)R
	Stainless Steel Ceiling Mounting Bracket	PN 5000(06)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Helps to mount the ladder on to the underlying structure
	Extendable Bracket	PN 9000(13) PN 9000(13) (EC)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Helps to mount the ladder on to the underlying structure
	Junction	PN 5000(08)	<ul style="list-style-type: none"> • Used to connect two rails together • Clamp made up of Aluminium Alloy and Fasteners-SS316
	Vertical Trolley	PN 8000(01)	<ul style="list-style-type: none"> • Material: Stainless Steel (316) Trolley with Brass wheels which provide frictionless movement. Anti inversion pin to prevent unintentional release of trolley from the rail
	Alu Extension	PN 8000(02)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy • Length: 1.5m
	Ladder Rung Assembly	PN 9000(01)	<ul style="list-style-type: none"> • Ladder Rung Material: ED Coated
	Aluminium Rail Extremity with Rung	PN 9000(02)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy. • Length: 3 m
	Aluminium Rail Intermediate with Rung	PN 9000(03)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy • Length: 3.0m
	Inspection Plate	PN 9000(12)	<ul style="list-style-type: none"> • For identification, traceability and maintenance of implementation records.

► HORIZONTAL ANCHORAGE LIFELINE SYSTEM ON RIGID CABLE LINE



Scan here for a virtual tour of the product



Ref. Horizon PN 4000 (Roof Mounted)

Horizon PN 4000 (Roof Mounted) provides permanent anchorage to max. 4 users who have to constantly move along an elevated horizontal track on the roof.

► IDEAL FOR USE

On pre-engineered building roofs, fragile roofs, industrial buildings, airports etc.

► GENERAL FEATURES

- MOC: Stainless Steel
- The line has a Shock Absorber at one end which reduces the impact of fall both on the user as well as on the extremities
- The Shock Absorber features a tension indicator and a fall indicator.
- Intermediates are required at every 5.0m to 15.0m for longer lines
- Carriage body passes through intermediates without disconnection.
- Variety of roof posts available for different types of roof sheet profiles.
- **Conforms to EN 795:2012 Type C and TS 16415:2013 (for upto 4 users) and ATEX 2014/34/EU**

Product	Product Name	Ref.	Features
	Shock Absorber	PN 4000MU(02)	Material: Stainless Steel 304
	Swaged Tensioner	PN 4000(03)	<ul style="list-style-type: none"> • Regulates tensioning of the cable • Material: Stainless Steel 316 • Feature: Swage termination
	Swageless tensioner	PN 4000(03)SL	<ul style="list-style-type: none"> • Regulates tensioning of the cable • Material: Stainless Steel 316 • Feature: Swageless termination
	Carriage Body	PN 4000(08)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Feature: Friction Free movement
	Intermediate	PN 4000(10)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Recommended Installation-every 15.0m
	Swaged Cable Extremity	PN 4000(15)	<ul style="list-style-type: none"> • Allows crimping of the cable wire at the desired length, and eliminates danger of any loose wire • Material: Stainless Steel 316 • Feature: Swaged termination
	cable Extremity (swageless)	PN 7000(03)	• Optional
	Wire Rope (Cable Wire)	PN 9XXXS	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Diameter: 8mm • Construction: 7x19
	Inspection Plate	PN 4000(20)	For identification, traceability and maintenance of implementation records.



Scan here for a virtual tour of the product



Ref. Horizon PN 4000 (Floor/Ceiling Mounted)

Horizon PN 4000 (Floor/Ceiling Mounted) provides permanent anchorage to max. 4 users simultaneously, who have to constantly move along an elevated horizontal track.

► IDEAL FOR USE

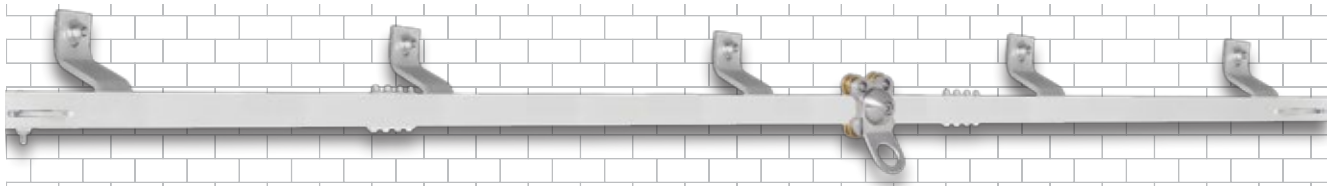
In truck loading/unloading, advertisement bill boards, industrial cranes, oversized machines, reactors, turbines, rail gantries etc.

► GENERAL FEATURES

- MOC: Stainless Steel.
- The line has a Shock Absorber at one end which reduces the impact of fall both on the user as well as on the extremities.
- The Shock Absorber features a tension indicator and a fall indicator.
- Intermediates are required at every 5.0m to 15.0m for longer lines.
- Carriage body passes through intermediates without disconnection.
- The system is certified by TECHNICKÁ INŠPEKČIA, a.s. for ATEX to comply with use in potentially explosive atmosphere (as per Potentially Explosive Atmospheres Directive 2014/34/EU), and conforms to EN ISO 80079-36:2016 and EN ISO 80079-37:2016.
- The system is certified to be intrinsically safe; hence, it is an ideal choice for use in Industries like Petroleum / Petro-Chemical Plants without fear of causing explosion due to any sparking.
- **Conforms to EN 795:2012 Type C and TS 16415:2013 (for up to 4 users) and ATEX 2014/34/EU.**

Product	Product Name	Ref.	Features
	Shock Absorber	PN 4000MU(02)	Material: Stainless Steel 304
	Swaged Tensioner	PN 4000(03)	<ul style="list-style-type: none"> • Regulates tensioning of the cable • Material: Stainless Steel 316 • Feature: Swage termination
	Swageless tensioner	PN 4000(03)SL	<ul style="list-style-type: none"> • Regulates tensioning of the cable • Material: Stainless Steel 316 • Feature: Swageless termination
	Carriage Body	PN 4000(08)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Feature: Friction Free movement
	Universal Extremity Plate	PN 4000(09)	Material: Stainless Steel 316
	Intermediate	PN 4000(10)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Recommended Installation-every 15.0m
	Swaged Cable Extremity	PN 4000(15)	<ul style="list-style-type: none"> • Allows crimping of the cable wire at the desired length, and eliminates danger of any loose wire • Material: Stainless Steel 316 • Feature: Swaged termination
	Cable Extremity (swageless)	PN 7000(03)	Optional
	Wheel Type Carriage Body	PN 4000(17)	Optional
	Double Tandem Pulley Small with SS Sheaves	AP 016	Optional
	Inspection Plate	PN 4000(20)	For identification, traceability and maintenance of implementation records.
	Wire Rope (Cable Wire)	PN 9XXXS	<ul style="list-style-type: none"> • Material: Stainless Steel 316 • Diameter: 8mm • Construction: 7x19





Scan here for a virtual tour of the product

Ref. Horizon PN 5000

This Anchorage Rail system is designed to provide safe anchorage for horizontal movement while working at height.

► IDEAL FOR USE

On walls, floors, ceilings.

► GENERAL FEATURES

- Corrosion free anodized aluminium rail.
- Continuous movement with complete fall protection.
- Four-wheel Trolley slides on the rail provides restrained fall protection.
- Locking jibs at either end for unintentional release of trolley from the rail.
- Curved Aluminium Rail for bends and curves.
- **Conforms to EN 795:2012 Type D.**

Product	Product Name	Ref.	Features
	Aluminium Rail Intermediate	PN 5000(01)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy • Length: 3.0m
	Aluminium Rail Extremity	PN 5000(02)	<ul style="list-style-type: none"> • Material: Extruded Aluminium Alloy • Length: 3.0m
	Mounting Nut	PN 5000(03)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 to connect the rail to the mounting Bracket PN 5000(04) or PN 5000(05)
	Wall Mounting Bracket Flush Type	PN 5000(04)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 (for Flush type wall Mounting)
	Wall Mounting Bracket with Recess	PN 5000(05)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 (for Wall Mounting with Recess)
	Ceiling Mounting Bracket	PN 5000(06)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 (For Ceiling mounting)
	Junction	PN 5000(08)	<ul style="list-style-type: none"> • Used to Connect Two rails together Material: Clamp-Aluminium Alloy; Fastener- SS316
	Trolley for Wall	PN 5000(12)	<ul style="list-style-type: none"> • Material: Stainless Steel 316 Trolley with Brass wheels which provides frictionless movement
	Trolley for Ceiling/Floor	PN 5000(13)	
	Curved Aluminium Rail Material: Extruded Aluminium Alloy	PN 5000(09A)	<ul style="list-style-type: none"> • Outer wall mounted
		PN 5000(09B)	<ul style="list-style-type: none"> • Inner wall mounted
		PN 5000(10)	<ul style="list-style-type: none"> • Ceiling / Floors
	Inspection Plate	PN 4000(20)	<ul style="list-style-type: none"> • For identification, traceability and maintenance of implementation records.

NEW ▶ **ROOF TOP ANCHOR POSTS**



▶ **ROOF TOP ANCHOR POST EXTREMITY**
Ref. SA 07A



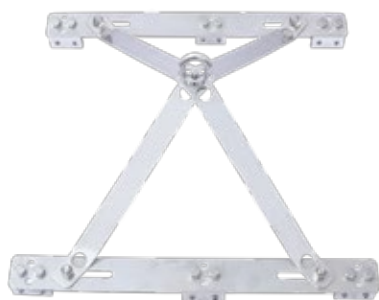
▶ **ROOF TOP ANCHOR POST INTERMEDIATE**
Ref. SA 07B



▶ **ROOF TOP ANCHOR POST EXTREMITY**
Ref. SA 07C



▶ **ROOF TOP ANCHOR POST INTERMEDIATE**
Ref. SA 07D



▶ **ROOF TOP ANCHOR POST EXTREMITY**
Ref. SA 07E



▶ **ROOF TOP ANCHOR POST INTERMEDIATE**
Ref. SA 07F



▶ **ROOF TOP ANCHOR POST EXTREMITY**
Ref. SA 07G



▶ **ROOF TOP ANCHOR POST INTERMEDIATE**
Ref. SA 07H



▶ **ROOF TOP ANCHOR POST EXTREMITY**



▶ **ROOF TOP ANCHOR POST INTERMEDIATE**
Ref. SA 07J





➤ **ROOF TOP ANCHOR POST EXTREMITY**

Ref. SA 070

➤ **ROOF TOP ANCHOR POST INTERMEDIATE**

Ref. SA 07P

Technical Snapshot								
Ref.	Material	Installed on	Finish	Weight	Minimum Breaking Strength	Min. and Max. Adjustable Opening	Conforms to	
SA 07A	SS Grade 316	Galvolume/ Trapezoidal roof top at both ends of a horizontal lifeline system installed over the roof.	Electro-Polished	3.7kg	15kN	Min: 245.0mm Max: 410.0mm	EN 795:2012 Type A TS16415:2013 (for upto 4 users)	
SA 07B		Galvolume/ Trapezoidal roof top at every intermediate of a horizontal lifeline installed over the roof.		3.5kg	NA		NA	
SA 07C		Standing seam roof top at both ends of a horizontal lifeline installed over the roof.		4.75kg	15kN	Min: 225.0mm Max: 400.0mm	EN 795:2012 Type A TS16415:2013 (for upto 4 users)	
SA 07D		Standing seam roof top at every Intermediate of a horizontal lifeline System installed over the roof.		4.0kg	NA		NA	
SA 07E		Standing seam roof top at both ends of a horizontal lifeline system installed over the roof.		5.0kg	15kN	Suitable for seam distance between 445.0mm to 610.0mm	EN 795:2012 Type A TS16415:2013	
SA 07F		Standing seam roof top at every Intermediate of a horizontal lifeline System installed over the roof.		4.25kg	NA		NA	
SA 07G		Galvolume/ Trapezoidal roof top at both ends of a horizontal lifeline system installed over the roof.		3.4kg	15kN	Cross Arms Electro-Polished Bottom Plate ED Coated (Grey colour)	The width of the base has an adjustable opening to adopt to the type of roof. The base plate has series of holes to fit different types of trapezoidal roof sheets.	EN 795:2012 Type A TS16415:2013 (for upto 2 users)
SA 07H		Galvolume/ Trapezoidal roof top at every intermediate of a horizontal lifeline installed over the roof.	3.19kg	NA	NA			
SA 07I		Standing seam roof top at both ends of a horizontal lifeline system installed over the roof.	4.99kg	15kN	The base plate has series of holes to fit on standing seam roof with different seam distance between 300.0mm to 500.0mm.			EN 795:2012 Type A TS16415:2013 (for upto 4 users)
SA 07J		Standing seam roof top at every Intermediate of a horizontal lifeline System installed over the roof.	4.83kg	NA	NA			
SA 07O		Standing seam roof top at both ends of a horizontal lifeline system installed over the roof.	4.99kg	15kN	The base plate has series of holes to fit on standing seam roof with different seam distance between 300.0mm to 650.0mm.	EN 795:2012 Type A TS16415:2013		
SA 07P		Standing seam roof top at every Intermediate of a horizontal lifeline System installed over the roof.	4.82kg	NA		NA		

NEW



CONSTANT FORCE ENERGY ABSORBER EXTREMITY WITH SWIVEL EYE FOR TRAPEZOIDAL ROOF

Ref. SA 38AE(SW)

➤ GENERAL FEATURES

- Designed with an inbuilt shock absorption mechanism which activates in the event of a fall and rescues the forces on the users.
- Easy and quick to install.
- Comes with a swivel eye for 350° rotation.
- The post deploys in the event of a fall to absorb the energy and hence protects the different pitch/rib.
- Comes with series of holes to adopt different metal pitched roof. It is compatible with below mentioned pitch:- 217mm, 275mm, 285mm, 333mm, 347mm, 397mm, 405mm and 465mm.

NEW



TOGGLE TYPE ANCHOR

Ref. SA 45

➤ IDEAL FOR USE

As an individual anchor point and also to form a Horizontal Lifeline over the roof.

➤ GENERAL FEATURES

Inbuilt shock absorption to lower impact forces.

NEW



CONSTANT FORCE ENERGY ABSORBER EXTREMITY WITH SWIVEL EYE FOR STANDING SEAM ROOF

Ref. SA 51AE(SW)

➤ GENERAL FEATURES

- SA 51A is designed with an inbuilt shock absorption mechanism which activates in the event of a fall and reduces the forces on the user.
- Easy and Quick to install.
- Comes with a swivel eye for 350 degree rotation
- The post deploys in the event of a fall to absorb the energy and hence protects the roof from damage.
- The base plate has series of holes to fit on standing seam roof with different seam distance between 250mm to 650mm.

NEW



ALUMINIUM ANCHOR FOR STANDING SEAM ROOF

Ref. SA 52

➤ GENERAL FEATURES

- Consists of Swivel Anchorage Eye on the top which provides universal connection and can be used as an anchorage point.
- The anchor is fixed on to the standing seam of roof by use of socket sets.

Technical Snapshot

Ref.	Material	Installed on	Finish	Weight	Minimum Breaking Strength	Max. Users	Conforms to
SA 38AE(SW)	SS Grade 316	Galvolume/Trapezoidal sheets of different pitch/rib.	Electro Polished	12.71kg	15kN	4	EN 795:2012 Type A TS16415:2013
SA 45		On the roof purlins through a drilled hole of dia 36.0mm.		2.10kg	15kN	4	EN 795:2012 Type A TS16415:2013
SA 51AE(SW)		Standing seam roof.		10.0kgs	15kN	4	EN795:2012 Type A, TS16415:2013
SA 52	High Strength Aluminium Alloy	Metal standing seam roof.		834.0gms± 10.0gms	15kN	1	EN 795:2012 Type A Certified to AS/NZS 5532:2013



NEW ▶ CORNER POSTS



Ref. PN 4000(26)90°

Designed to be fixed on Galvalume/ Trapezoidal roof at 90-degree curve of horizontal lifeline installed over the roof. The base plate has series of holes to fit on different types of galvalume trapezoidal roof sheets.



Ref. PN 4000(27)90°

Designed to be fixed on standing seam roof top at 90-degree curve of horizontal lifeline installed over the roof. The base plate has a series of holes to fit on different types of standing seam roofs with different seam distance between 300.0mm to 500.0mm.



Ref. PN 4000(28)90°

Designed to be fixed on standing seam roof top at 90-degree curve of horizontal lifeline installed over the roof. The base plate has a series of holes to fit on different types of standing seam roofs with different seam distance between 300.0mm to 650.0mm.

Technical Snapshot					
Ref.	Material	Finish	Weight	Minimum Breaking Strength	Conforms to
PN 4000(26)	SS Grade 316	Base: ED Coated (Grey) Corner Piece: Electro Polished	3.86kg	15kN	EN 795:2012 Type C, TS16415:2013 (for upto 4 users)
PN 4000(27)			4.0kg		
PN 4000(28)			4.26kg		

NEW ▶ CORNER PIECE



Ref. PN 4000(21)90°

Corner Piece bend for a floor / ceiling mounted lifeline.



Ref. PN 4000(23)90°

Corner Piece internal bend for a wall mounted lifeline.



Ref. PN 4000(25)90°

Corner Piece external bend for a wall mounted lifeline.

Technical Snapshot					
Ref.	Material	Finish	Weight	Minimum Breaking Strength	Conforms to
PN 4000(21)	SS Grade 316	Electro Polished	1.0kg	15kN	EN 795:2012 Type C, TS16415:2013 (for upto 4 users)
PN 4000(23)				12kN	
PN 4000(25)				15kN	

NEW



ANCHOR POST

Ref. SA 87A

GENERAL FEATURES

- Designed to be fixed on trapezoidal roof with the help of suitable fasteners/pop rivets.
- The stainless steel profiled plate is best suited for harsh environments and robust construction.
- Anchor should be fixed directly onto the the purlin for strength.
- It is compatible with pitch ranging from 206mm to 305mm.
- Profiled dome ensures no interference with roof deck rib and allows free rotation of eyelet.
- Batch identity number allows traceability and identification.
- Multiple fixing locations are provided which suits varying roof deck pitches, screw and rivet fixing.
- The 8mm pop rivets provides high pull-out resistance and quality penetrations seal.

NEW



ANCHOR POST INTERMEDIATE

Ref. SA 87B

GENERAL FEATURES

- Designed to be fixed on trapezoidal roof with the help of suitable fasteners/pop rivets.
- The stainless steel profiled plate is best suited for harsh environments and robust construction.
- Fixed intermediate at the center of plate to be used as pass through support.
- Anchor should be fixed directly onto the the purlin for strength.
- It is compatible with pitch ranging from 206mm to 305mm.
- Profiled dome ensures no interference with roof deck rib and allows free rotation of eyelet.
- Batch identity number allows traceability and identification.
- Multiple fixing locations are provided which suits varying roof deck pitches, screw and rivet fixing.
- The 8mm pop rivets provides high pull-out resistance and quality penetrations seal.

Technical Snapshot

Ref.	Material	Installed on	Finish	Weight	Minimum Breaking Strength	Max. Users	Conforms to
SA 87A	SS Grade 316	Trapezoidal sheets of different pitch/rib	Polished	1.71kg	15kN	4 users	EN 795:2012 Type A CEN/TS 16415:2013 Type A AS/NZS 5532:2013
SA 87B				2.11kg	NA	NA	

NEW



SWIVEL ANCHOR FOR STANDING SEAM ROOF

Ref. SA 116

▶ GENERAL FEATURES

- Designed to be fixed on standing seam roofs with the help of suitable fasteners/pop rivets.
- Swivel anchorage eye on the top provide universal connection as an anchorage point.
- Can be installed on upto 23mm bulb size on standing seam roof
- Compatible with different seam distance between 320mm to 640mm.

NEW



INTERMEDIATE POST FOR STANDING SEAM ROOF

Ref. SA 116S(I)

▶ GENERAL FEATURES

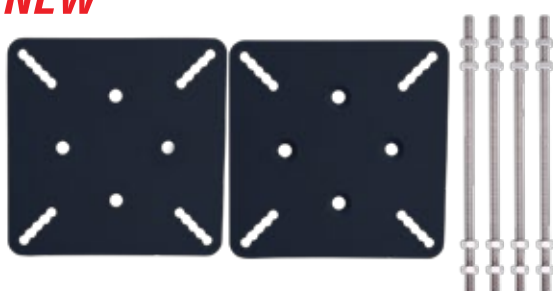
- Designed to be fixed on standing seam roofs with the help of suitable fasteners/pop rivets.
- Swivel anchorage eye on the top provide universal connection as an anchorage point.
- Can be installed on upto 23mm bulb size on standing seam roof.
- Compatible with different seam distance between 320mm to 640mm.

Technical Snapshot

Ref.	Material	Installed on	Finish	Weight	Minimum Breaking Strength	Max. Users	Conforms to
SA 116	Aluminium Alloy and Stainless Steel	Standing Seam	Natural Silver/ Colored Anodized	3.47kg	23kN	1 user	EN 795:2012 Type A ANSI Z359.1 AN/NZS 5532:2013
SA 116S(I)				2.70 kg	15kN	NA	NA



NEW



EXTREMITY ANCHOR

Ref. SA 22

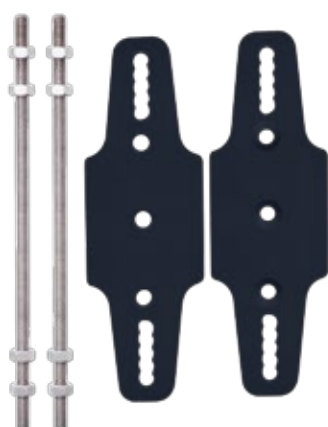
➤ **GENERAL FEATURES**

- MOC: ED coated Black in Alloy Steel
ED coated Grey in Stainless Steel
- Compatible with Universal Extremity Plate; Ref. PN 4000(09)



PN 4000(09)

NEW



INTERMEDIATE ANCHOR

Ref. SA 23

➤ **GENERAL FEATURES**

- MOC: ED coated Black in Alloy Steel
ED coated Grey in Stainless Steel
- Compatible with Intermediate Ref. PN 4000(10)



PN 4000(10)

NEW



EXTREMITY ANCHOR FOR I-BEAM

Ref. SA 24

➤ **GENERAL FEATURES**

- MOC: ED coated Black in Alloy Steel
ED coated Grey in Stainless Steel
- Compatible with Universal Extremity Plate;
Ref. PN 4000(09) and Intermediate Ref. PN 4000(10)



PN 4000(09)



PN 4000(10)

Technical Snapshot						
Ref.	Material	Finish	Weight	Minimum Breaking Strength	Min. and Max. Flange Width	Conforms to
SA 22	Alloy Steel / Stainless Steel	ED Coated	12.45kg	15kN	150.0mm - 220.0mm	EN 795:2012 Type A, TS 16415:2013
SA 23			3.87kg	NA		NA
SA 24			10.52kg	15kN		EN 795:2012 Type A, TS 16415:2013

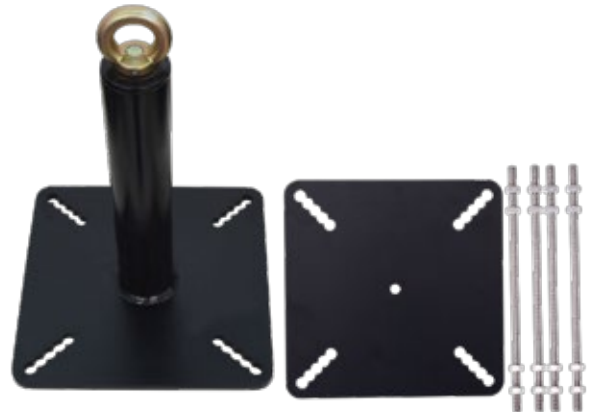


NEW



➤ **ANCHOR POST**
Ref. SA 111(500)

NEW



➤ **ANCHOR POST**
Ref. SA 111A(500)

NEW



➤ **ANCHOR POST**
Ref. SA 111B(500)

Technical Snapshot

Ref.	Material	Installed on	Finish	Weight	Minimum Breaking Strength	Min./Max. Adjustable Opening	Conforms to
SA 111(500)	Alloy Steel	Metal I beam to install horizontal lifeline	ED coated black	15.87kg	23kN	Min: 150mm Max: 220mm	EN 795:2012 Type A
SA 111A(500)				16.1kg			
SA 111B(500)				16.2kg			

NEW



EXTREMITY ANCHOR POST

Ref. SA 25

► **GENERAL FEATURES**

- MOC: ED coated Black Alloy Steel / Stainless Steel 316
- Anchor post designed to be fixed to install a horizontal lifeline
- Available Lengths: 300.0mm, 500.0mm and 750.0mm
- Compatible with Universal Extremity Plate; Ref. PN 4000(09) and Intermediate Ref. PN 4000(10)

NEW



EXTREMITY ANCHOR POST FOR I BEAM

Ref. SA 56

► **GENERAL FEATURES**

- MOC: ED coated Black Alloy Steel / Stainless Steel 316
- Anchor post designed to be fixed to install a horizontal lifeline on I Beam
- Available Lengths: 300.0mm, 500.0mm and 750.0mm
- Compatible with Universal Extremity Plate; Ref. PN 4000(09) and Intermediate Ref. PN 4000(10)

NEW



ANCHOR POST

Ref. SA 57

► **GENERAL FEATURES**

- MOC: ED coated Black Alloy Steel
- Anchor post designed to be fixed on concrete structures using chemical fasteners to install Horizontal Lifelines
- The base has an adjustable opening to fit on the top flange of various sizes of I-section
- Available Lengths: 300.0mm and 500.0mm
- Compatible with universal extremity plate PN 4000(09) and Intermediate PN 4000(10)



PN 4000(09)



PN 4000(10)

Both are compatible with Ref. SA 25, Ref. SA 56 and Ref. SA 57

Technical Snapshot

Ref.	Material	Finish	Minimum Breaking Strength	Min. and Max. Flange Width	Available Length and Weight	Conforms to
SA 25	Alloy Steel	ED Coated	15kN	150.0mm - 220.0mm	300.00mm : 18.30kg 500.00mm : 20.07kg 750.00mm : 22.15kg	EN 795:2012 Type A TS 16415:2013 Certified to AS/NZS 5532:2013
SA 25(SS)	Stainless Steel	Electro Polished			300.00mm : 17.80kg 500.00mm : 19.20kg 750.00mm : 21.03kg	
SA 56	Alloy Steel	ED Coated			300.00mm : 12.15kg 500.00mm : 12.97kg 750.00mm : 14.15kg	EN 795:2012 Type A TS 16415:2013
SA 56(SS)	Stainless Steel	Electro Polished			300.00mm : 12.15kg 500.00mm : 12.97kg 750.00mm : 15.15kg	
SA 57	Alloy Steel	ED Coated		NA	300.00mm : 10.38kg 500.00mm : 12.80kg	



SELF CONTAINED SAFETY ITS

 KARAM












KARAM provides a range of Self Contained Safety Kits for ready use in various applications. These Kits contain standard equipment and can be customized as per the specific need of the user.

► MAINTENANCE AND WINDOW CLEANING KIT

Ref. PN 651

This Kit is meant to fulfill all the purposes and requirements of personnel engaged in maintenance jobs at height.



 <p>TOWER HARNESS PN 56</p>	 <p>ROPE GRAB FALL ARRESTER PN 2000A (112C)</p>	 <p>TWISTED ROPE ANCHORAGE LINE PN 950 (14mm)(50m)</p>
 <p>GRIP DESCENDER PN 401 (113)</p>	 <p>TOOL BAG BG 12</p>	 <p>CROSS ARM STRAP PN 803 (1.2mtr)(2 Nos.)</p>
 <p>STEEL SCREW LOCKING KARABINER PN 112 (2 Nos.)</p>	 <p>KERNMANTLE ROPE ANCHORAGE LINE PN 950 (KRKD11)(121)(50m)</p>	 <p>DELUXE UNIVERSAL KIT BAG BG 20</p>

► BASIC RESCUE KIT (ROPE ACCESS)

Ref. PN 652

KARAM Rescue Kit offers a complete and immediate solution for rescue of a victim of fall from height, as he lies suspended with his fall arrest equipment.



Scan here for a virtual tour of the product

 <p>TOWER HARNESS PN 56</p>	 <p>KERNMANTLE ROPE ANCHORAGE LINE PN 950 (KRKD11)(121)(50m)(2 Nos.)</p>	 <p>CROSS ARM STRAP PN 808</p>	
 <p>GRIP DESCENDER PN 401 (113)</p>	 <p>CROSS ARM STRAP PN 803 (1.2mtr)(2 Nos.)</p>	 <p>WEBBING COWS TAIL PN 401W (20cm)</p>	
 <p>STEEL QUARTER TURN LOCKING KARABINER PN 113 (6 Nos.)</p>	 <p>WORK POSITIONING LANYARD PN 245 (2.0m)</p>	 <p>KNIFE</p>	
 <p>ROPE GRAB BLOCKER RG 07(113)</p>	 <p>KERNMANTLE ROPE EA FORKED LANYARD PN 341N (1.5m)</p>	 <p>DELUXE UNIVERSAL KIT BAG BG 63</p>	

► **TELECOM TOWER CLIMBING KIT**

Ref. PN 653

This Kit is designed for the personnel engaged in working on a high rise tower with an extra provision of bigger Hooks and easily adjustable Lanyards to suit the requirement of the working individual.



TOWER HARNESS
PN 44



WORK POSITIONING LANYARD
PN 242 (2.0m)



KERNMANTLE ROPE EA FORKED LANYARD
PN 341N (1.5m)



TOOL BAG
BG 12



ROPE GRAB FALL ARRESTER
PN 2000A (112C)



TWISTED ROPE ANCHORAGE LINE
PN 950 (14mm)(121)(50m)



TWIN TOOLS LANYARD
TL02(N)



CROSS ARM STRAP
PN 803 (1.2mtr)(2 Nos.)



DELUXE UNIVERSAL KIT BAG
BG 20

► **CONFINED SPACE ENTRY/EGRESS KIT WITH TRIPOD**

Ref. PN 654

This Kit is meant for personnel who are required to move into and for retrieval of personnel from Confined Spaces.



TOWER HARNESS
PN 56



TOOLS LANYARD
TL01 (N)(2Nos.)



TRIPOD BAG
PN 904 (7ft) (BL)



WINCH
PN 801(DP)



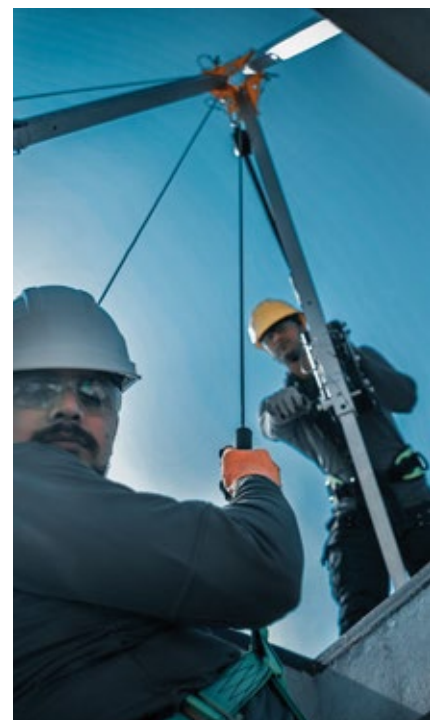
RETRIEVAL FALL ARRESTER BLOCK
PCGS 20R(N)



TRIPOD
PN 800 (DP)(7ft)



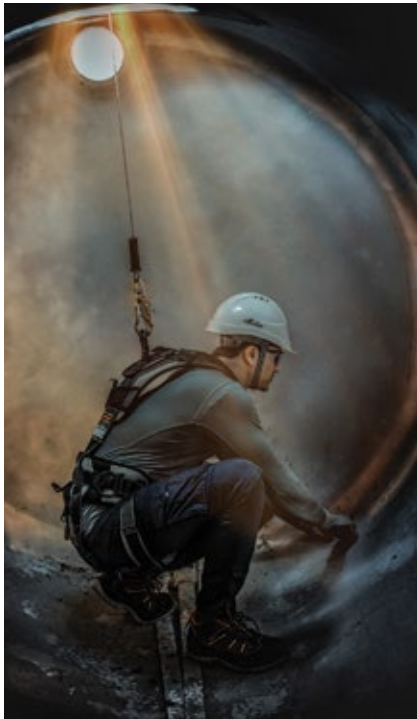
MOUNTING BRACKET
PN 800(45)
for installing PCGS 20R on
PN 800 (DP)(7FT)








► CONFINED SPACE ENTRY/EGRESS KIT WITH K-POD

Ref. PN 655

This Kit is meant for personnel who are required to move into Confined Spaces, using the KARAM Cantilever K-Pod.




 <p>TOWER HARNESS PN 56</p>	 <p>WINCH PN 801(DP)</p>	 <p>To be ordered separately (PN 900(01))</p>
 <p>TOOLS LANYARD TL01(N)(2Nos.)</p>	 <p>RETRIEVAL FALL ARRESTER BLOCK PCGS20R(N)</p>	<p>CANTILEVER K-POD PN 900</p>  <p>MOUNTING BRACKET PN 900(07) for installing PCGS 20R on PN 900</p>
 <p>K-POD BAG PN 904 (7ft) (BL)</p>	 <p>STEEL QUARTER TURN LOCKING KARABINER PN 111</p>	

► HAULING AND LOWERING RESCUE KIT

Ref. PN 661

KARAM introduces Hauling Rescue Kit specifically designed for rescuing a suspended casualty by using Fall Arrest Lanyards, Rope Safety Lines and Fall Arrest Blocks, all possible from a point of safety. The Kit is provided with 3m long Rescue Pole for extension to the fall victim, and hence does not require the rescuer to descend towards the victim.

 <p>TOWER HARNESS PN 56</p>	 <p>DESCENDER JUMPER PN410</p>	 <p>KERNMANTLE ROPE ANCHORAGE LINE PN 950 (KRKD11)(50m)</p>	 <p>ROPE CLAMP PN 402(R)</p>	
 <p>ALUMINIUM DOUBLE PULLEY DOUBLE SIDE ATTACHMENT AP017(SS)(BB)(2 Nos.)</p>	 <p>ALUMINIUM SCAFFOLD HOOK PN136</p>	 <p>TWISTED ROPE EA FORKED LANYARD PN 351N (1.5m)</p>	 <p>RESCUE POLE PN 821N</p>	
 <p>STEEL QUARTER TURN LOCKING KARABINER PN 113(5 Nos.)</p>	 <p>CROSS ARM STRAP PN 803 (1.2mtr)(2 Nos.)</p>	 <p>DELUXE UNIVERSAL KIT BAG BG 63</p>		
 <p>ALUMINIUM SMALL SINGLE PULLEY SINGLE SIDE ATTACHMENT AP011A</p>	 <p>WORK POSITIONING LANYARD WITH GRIP ADJUSTER PN 247 (2.0m)</p>			



NEW ▶ **FALL ARREST RESCUE WITH RATCHET HAULING SYSTEM KIT**
 Ref. PN 666









This Kit is designed for the personnel engaged in working on a high rise tower with an extra facility of some specialized products to suit the requirement of the working individual.



 TOWER HARNESS PN 56	 CROSS ARM STRAP PN 807(1.5m)	 STEEL QUARTER TURN LOCKING KARABINER PN 111 (2 Nos.)
 GRIP DESCENDER PN 401(113)	 KERNMANTLE ROPE ANCHORAGE LINE PN 950 (KRKD11)(121) (50m)(2 Nos.)	 KERNMANTLE ROPE EA FORKED LANYARD PN 341(A)(1.5m)
 RATCHET HAULING SYSTEM PN 411	 WORK POSITIONING LANYARD WITH GRIP ADJUSTER PN 247 (2.0m)	 DELUXE UNIVERSAL KIT BAG BG 63

NEW ▶ **RESCUE LADDER SYSTEM FOR SELF-RESCUE**
 Ref. IMP 008

KARAM introduces the Rescue Ladder System, designed to rescue the victim from fall. The Ladder of 6.0m included in the Kit allows a victim to climb safely while the rescuer pulls rope slack through the Rope Grab included in the system. This eliminates the chance of a high impact secondary fall.











 SELF RESCUE LADDER IMP 008(1)	 RIGGING PLATE PRP 01	 KERNMANTLE ROPE ANCHORAGE LINE PN 910 (KRKD11)(10m)	
 CROSS ARM STRAP PN 807(1.5m)	 ROPE GRAB BLOCKER RG 07(113)		
 STEEL QUARTER TURN LOCKING KARABINER PN 113(2 Nos.)	 DELUXE UNIVERSAL KIT BAG BG 63		


NEW  **RAKSHAK KIT (ESSENTIAL)**

Ref. PN 667

Rakshak Kit (Essential) is designed to minimize the risk, and provide protection against, the danger of falling from heights while painting on exteriors and facades. The kit is specifically designed for painters to meet their specific requirements, ensuring their complete safety along with high comfort levels.















 <p>TOWER HARNESS PN 56(P)</p>	 <p>TWIN TOOLS LANYARD TL02(N)</p>	 <p>CROSS ARM STRAP PN 803 (1.2mtr)(2 Nos.)</p>
 <p>GRIP DESCENDER PN 401(113)</p>	 <p>GALVANIZED STEEL ROPE GRAB RG 11 (25)(PN112)(C)</p>	 <p>EASY SEAT IMP 004</p>
 <p>STEEL QUARTER TURN LOCKING KARABINER PN 111 (2 Nos.)</p>	 <p>KERNMANTLE ROPE ANCHORAGE LINE PN 950 (KRKD11)(121) (50m)(2 Nos.)</p>	 <p>DELUXE UNIVERSAL KIT BAG BG 63</p>
 <p>OPENABLE PROTECTIVE SLEEVE PR 02 (4 Nos.)</p>		

NEW  **RAKSHAK KIT (PREMIUM)**

Ref. PN 667(P)

For adding more comfort and ergonomics, KARAM Rakshak Kit (Premium) comes with additional products like Parapet Anchor (Ref. SA11), Edge Protector (Ref. ARC 02), and Rescue Chair (IMP 007EC), enabling the painters to work tirelessly throughout the day.

 <p>TOWER HARNESS PN 56(P)</p>	 <p>TWIN TOOLS LANYARD TL02(N)</p>	 <p>PARAPET ANCHOR SA 11 (2 Nos.)</p>	
 <p>GRIP DESCENDER PN 401(113)</p>	 <p>GALVANIZED STEEL ROPE GRAB RG 11 (25)(PN112)(C)</p>	 <p>RESCUE CHAIR IMP 007EC</p>	
 <p>STEEL QUARTER TURN LOCKING KARABINER PN 111 (2 Nos.)</p>	 <p>EDGE PROTECTOR ARC 02</p>	 <p>DELUXE UNIVERSAL KIT BAG BG 63</p>	
 <p>OPENABLE PROTECTIVE SLEEVE PR 02 (4 Nos.)</p>	 <p>KERNMANTLE ROPE ANCHORAGE LINE PN 950 (KRKD11)(121)(50m)(2 Nos.)</p>		



NEW **▶ QUICK ZIP LINE SYSTEM KIT**

Ref. PN 670

This Kit is specially designed keeping in mind the needs of Climbers, Mountaineers and Adventure Geeks involved in creating the Zip Lining System. Equipped with all the essential products, this kit is the ideal kit for zip line riders.



Scan here for a virtual tour of the product



MAGNA 2
(2 Nos.)



CONCRETE ANCHOR STRAP
PN 806 (4 Nos.)



WEBBING COWS TAIL
PN 401W(25) (1 No.)



DESCENDER JUMPER
PN 410 (2 Nos.)



KERNMANTLE ROPE(Dia 12mm)
PN 9120(KRKD12)
(120 mtrs- 1 Nos. 60 mtrs - 2 Nos.)



ALUMINIUM SINGLE PULLEY
AP 011 (1 No.)



ROPE CLAMP
PN 402 (1 No.)



STEEL TRIPLE ACTION LOCKING KARABINER
PN 114 (15 Nos.)



DOUBLE TANDEM PULLEY
AP 016 (2 Nos.)



FIGURE OF 8
PN 431 (1 No.)



DELUXE UNIVERSAL KIT BAG
BG 63



EVACUATION TRIANGLE
PN 852 (1 No.)



RESPAC RECOVERY STRETCHER
PN 403(1 No.)

KARAM provides a vast range of Cable Load Arresters with different load capacities, which are used to stop the fall of a load (basketball hoop, ramp lighting for scenic, industrial machine etc.)

Load arrester stop the fall of load for a short distance in case of the following situations:

- Break of chain or cable for hoisting the load.
- Failure of the retaining elements of the load.

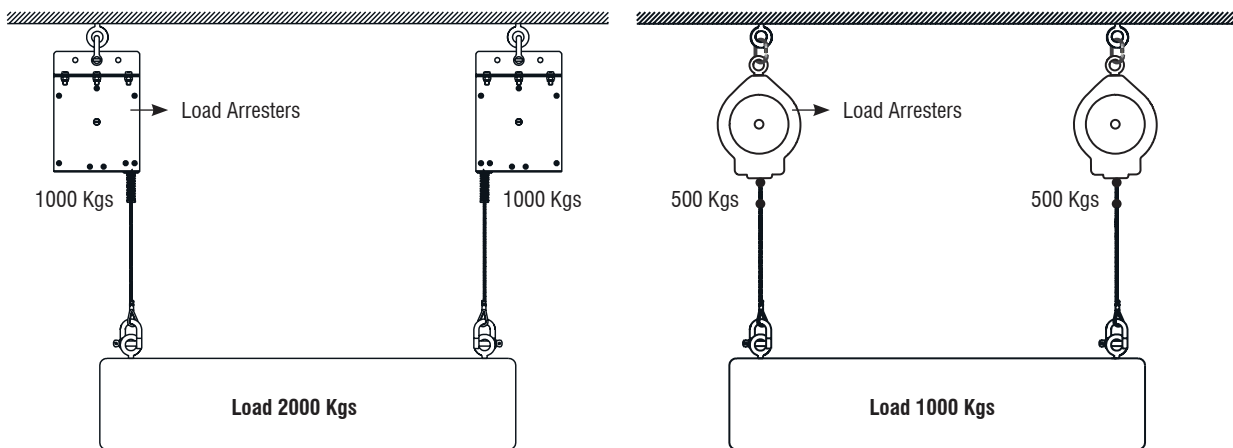
Cable Load Arresters are not PPE. Conforms to Machine Directive 2006/42/EC.

UNDERSTANDING LOAD ARRESTERS:

These are backup safety system which arrest the fall of a load in the event of the primary systems failing.

It reduces the risk of equipment damage and protects personnel in and around the danger zone.

KARAM range of Load Arresters is available to protect loads ranging from 200kgs to 1000kgs with a variety of wire rope lengths based on the six model sizes. These can also be used in conjunction with other arresters of the same size to achieve a desired working load capacity.



Why Load Arresters?

Load Arrestors are needed to

- Arrest falling loads/ weights
- Does not damage the anchorage and load due to force
- Possibility of Different Lengths

Advantages of Load Arresters:

Following properties of load arrestors which make these useful:

- Quick fall Arrest Ability
- Shock Absorbing
- Self-Retraction

Area of Application

- Automobile industry
- Pharmaceutical sector
- Construction industry
- Logistics and warehousing
- Steel industry
- Cement sector





LA0200-10	4.2kg
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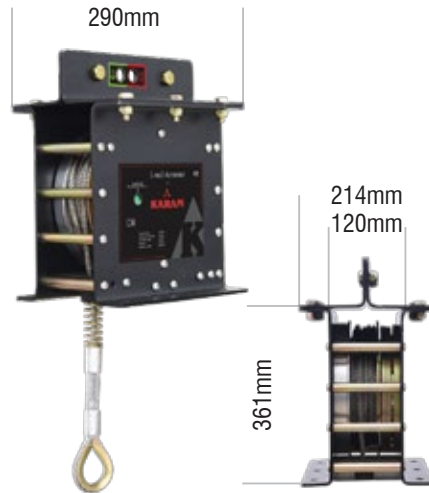
LA0300-10	6.1kg
LA0300-15	6.5kg



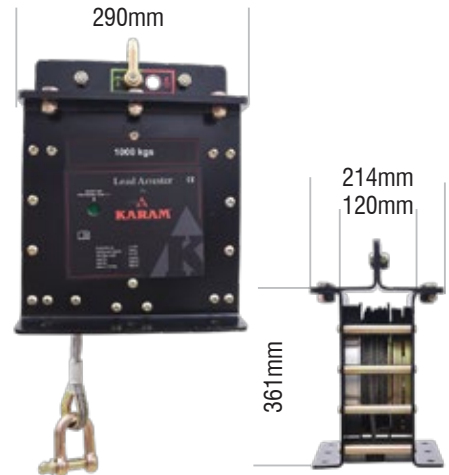
LA0400-10	11kg
LA0400-15	11.5kg
LA0400-20	12kg



LA0500-10	11.5kg
LA0500-15	12.0kg



LA1000-11	31.37kg
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LA1000-16	35.0kg
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ATEX 2014/34/EU



ATEX 2014/34/EU

Technical Snapshot

Ref.	Length of Cable	Max Load Capacity	Casing Material	Wire Rope Material and Dia	Minimum Breaking Strength of Load Arrester Assembly
LA0200-10	10 m	200 kg	High impact strength polymer	Galvanized Steel wire rope of dia 4.8mm	> 3kN
LA0300-10	10 m	300 kg			> 4kN
LA0300-15	15 m	300 kg			> 4kN
LA0400-10	10 m	400 kg		Galvanized Steel wire rope of dia 5.8mm	> 6kN
LA0400-15	15 m	400 kg			> 6kN
LA0400-20	20 m	400 kg			> 6kN
LA0500-10	10 m	500 kg		Galvanized Steel wire rope of dia 6.0mm	> 7kN
LA0500-15	15 m	500 kg	> 7kN		
LA1000-11	11 m	1000 kg	High strength alloy steel	Stainless Steel wire rope of dia 8.0mm	> 13kN
LA1000-16	16 m				

► MATERIAL HAULING SYSTEM

Ref. PN 660



Ref. PN 660(3:1)
Mechanical Advantage: 1/3

Ref. PN 660(5:1)
Mechanical Advantage: 1/5

**Actual color of the rope used in the above system may vary with the picture shown above.*



Aluminium Snap Hook
D Type



Karabiner
Ref. PN 111(C)
EN 362:2004 Class B



Karabiner
Ref. PN 113
EN 362:2004 Class B



Ref. AP 012
EN 12278:2007



Ref. AP 014
EN 12278:2007



Ref. AP 013
(For 5:1)
EN 12278:2007



Rope Retention Guide
Ref. PN 404



Descender
Ref. PN 410
EN 341 Type 2 Class B
EN 12841 Type C



Rope Clamp
Ref. PN 402(R)SL
EN 567:2013



Cross Arm Strap
Ref. PN 803 (1.2m)
EN 795:2012 Type B



Kernmantle Rope Anchorage Line
(10.5mm)
EN 1891:1998
as per directive

► IDEAL FOR USE

To raise and lower the mass/load/material with ease. The device is also used for either raising or lowering the mass/load/material to the ground or the next accessible level.

► GENERAL FEATURES

- It is a versatile system made up of Aluminium and Steel components, which are light in weight and highly corrosion resistant.
- The system is provided in a fully assembled factory fitted 3:1 or 5:1 hauling ratio.
- A single person can easily operate the device to raise or lower mass/load/material with considerable ease.
- Unidirectional movement of the Rope Retention Guide (Ref. PN 404) allows the rope to hold itself in place, preventing any reel-back and allowing effortless ascent and controlled descent.
- It comes with an ascend Rope Clamp along with a Cross Arm Strap and specially designed control device PN 410. This arrangement stops the descent in case it is accidentally released.
- The rope used is a KARAM Kernmantle rope of Diameter 10.5mm. This rope is tested for strength, is abrasion resistant, and comes fitted in the system in lengths as per requirement.
- Suitable for use for a maximum personal load of 250 kgs.



KARAM[®] SUPPORTS THE FIGHT

AGAINST ANTI-DUPPLICITY

At KARAM, duplicity causes a huge ethical and moral loss of delivering a quality product and, loss of reputation and trust with its customers. This is because our prime commitment is to deliver you the best at all times.

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TRAINING & CONSULTANCY



- 1,14,500+ Trained on Fall Protection and Rescue Competency.
- Member of Industrial Rope Access Trade Association, UK (IRATA).
- Premium member of British Safety Council.
- South East Asia's first GWO (Global Wind Organization) approved training provider.
- Approved Training Provider (ATP) of TRARAsia, Singapore.
- Approved Training provider for VIL FARM courses certified by Gravity Training.
- Only organization in India to impart training as per NFPA standards on Technical Rescue: NFPA 1670 and NFPA 1006.
- Experienced faculty of 25+ local language trainers.
- EN certified, latest training equipment.
- State-of-the-art-center in Noida (Delhi, NCR) and Chittorgarh, Rajasthan.
- 20,500 sq. ft. dedicated facility with Advanced Simulation of Height, Confined Space and Rescue with fully equipped training halls.
- BS 8454:2006 'Code of Practice for Delivery of Training and Education for Work at Height and Rescue', GWO Basic Safety Training Standard, NFPA 1670 and NFPA 1006, IRATA ICOP, TRARAsia.



AUTHORISED REVALIDATION & ENGINEERING



- KARAM Authorised Revalidation and Engineering (KARE) focusses on responsible after-sale services which include Inspection and revalidation of Personal Protective Equipment (PPE), Service and Repair of Retractable Fall Arrester Blocks and Inspection, Repair and Revalidation of Fixed Line Systems (FLS) on an annual basis.
- Maintains competent and vigorous after sale service establishments throughout India.
- Trained personnel with adequate skills, resources and knowledge in re-inspection and re-validation.
- Download the KARAM KARE app now for automatic reminders of periodic inspection and revalidation of KARAM products. Available for Android and IOS users.



- Unstoppable since the time of its inception in the year 2016.
- With three Mobile Studios, KARAM is set out on its goal that no worker is left unsafe within the boundaries of India.
- Together the three Mobile Studios have covered more than 1500 top Indian companies by providing Exclusive on-site safety demonstrations and raised awareness to nearly 2 lac plus workers.
- Spanning all across India with its continued safety journey.
- Has "Hydraulic Testing Rig" to demonstrate dynamic fall test to educate workers on the usage of Fall protection equipment.



www.karamonline.com



- Specialized Portal for selling KARAM products online.
- Free shipping on and above Rs. 500.
- Facility of delivery all across India.
- Has single piece order option available.
- Comes with easy payment options.

*Scan the above QR Codes to discover more about KARAM Services.

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