blocfor® AES®

Self-retracting lifeline

Ref.: T-4704
Revision: 4
Date: 04/2021

The blocfor® AES self-retracting lifeline provides freedom of movement to workers performing their job at various heights. The device automatically takes up the slack in the rope, keeping it out of the way while minimizing the free fall distance, should a fall occur. In the event of a fall, the sudden jerk in the rope will activate the centrifugal locking mechanism, arresting the fall within 43 in. (1.1 m).

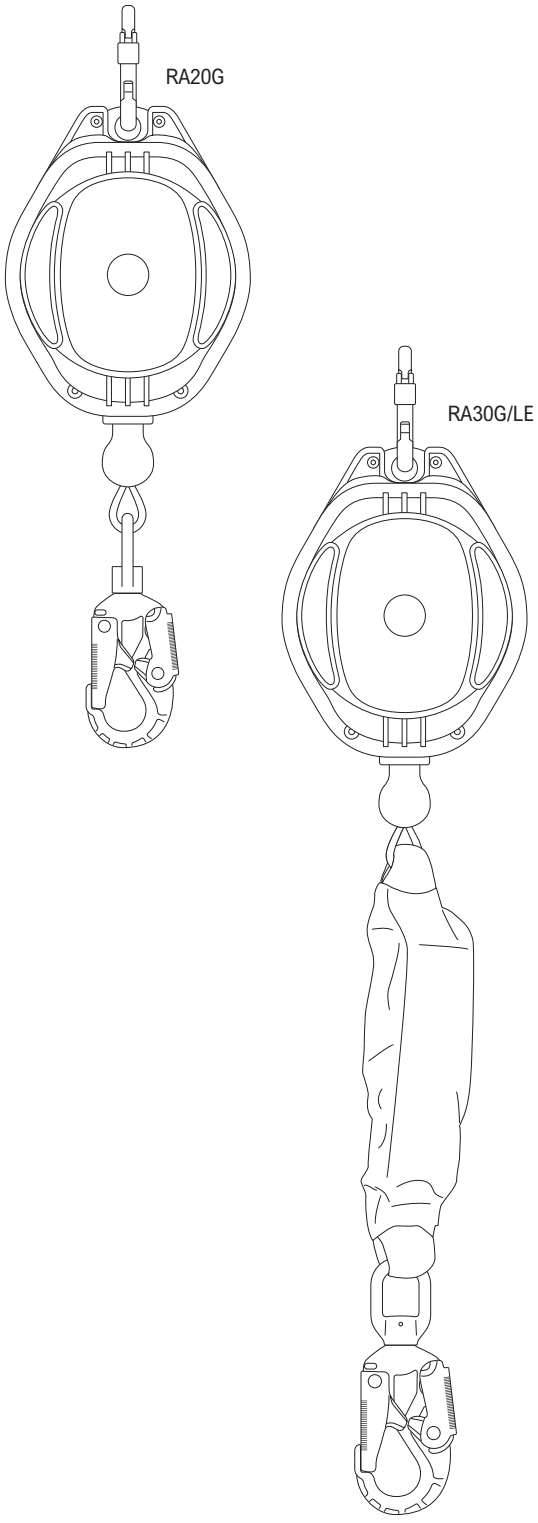
The user is attached to the blocfor® AES self-retracting lifeline by a wire rope or synthetic rope whose length is automatically adjusted by a retracting spring that activates a drum on which the wire rope or synthetic rope is coiled onto.

In the event of a fall, the drum is locked by a pawl system which engages in a ratchet wheel under the effect of the centrifugal force caused by the acceleration of the falling mass attached to the wire rope. The fall is stopped gradually by the slide blocking of a disk braking system.

A second model of the blocfor® AES is also available: the blocfor® AES Leading Edge self-retracting lifeline. It is especially made to use in applications where falls may occur over an edge such as roofing, leading edge construction, etc. The integral energy-absorbing component gives additional protection in the event of a fall over the edge. The device automatically takes up the slack in the rope, keeping it out of the way while minimizing the free fall distance, should a fall occur. This blocfor® model is suited for use with fall arrest systems using Tractel® roof anchors.

Because the wire rope or synthetic rope is constantly tensioned between the user and the blocfor®, the user's free fall distance is held to a minimum by the disk braking system.

For further information, refer to the "Use and Maintenance Instructions" for the blocfor® AES self-retracting lifeline.



⚠ WARNING

Always work directly under anchorage point as a pendulum fall could result in serious injury or death, with the exception of the leading edge models.

⚠ WARNING

Always select an anchorage point that is rigid and capable of supporting a minimum load of 5,000 lbs. (22.5 kN).

FEATURES

- Housing
  - Fiberglass filled casing for added durability, works to dissipate and absorb shock if dropped or struck by objects.
- Construction
  - Isolated drum keeps all brake components contaminate-free.
  - All parts are corrosion resistant.
  - Mechanical parts are not dependent on the integrity of the housing.
- Brake mechanism
  - Patented braking system with integrated energy absorber insuring a fall arrest even though the rope is completely out of its casing.
  - Single inertia and speed-activated brake pawl design.
  - Brake pawl and toothed wheel made and aluminum bronze preventing risk of spark.
  - Leading edge model with integrated energy absorber.
- Design
  - Features a carabiner-positioning washer.
  - Rubber stop which is easy to take in hand and acts as a buffer

when cable is accidentally released (high-speed recoil).
  - Reinforced plastic rope guide is designed for high wear resistance, low cost and easy maintenance.
  - Swivel self-locking snap hook has a visual fall indicator to allow inspection before each use.
  - Fewer internal components requiring minimal repair time and cost.
  - Casing specially designed so it can be handled with one hand.
  - Leading edge capability.
- Synthetic rope
  - Offers very little abrasion on sensitive surfaces.
  - Maximum strength to weight ratio.
  - Fiber offers no water absorption.
- Wire rope
  - Offers resistance to chemical, abrasive or heat conditions.
- Optional swivel at top.

APPLICATIONS

- Wire rope models
  - Ships
  - Aircraft maintenance
  - Construction sites
  - Silos
  - Towers
  - Railroad sidings
  - Fixed ladder
  - Shafts
  - Quarries facilities
  - Tank truck loading/unloading
  - Manholes
  - Pipeways
  - Tanks
  - Any elevated work station
  - Aircraft maintenance
  - Any elevated work station
- blocfor® AES Leading Edge model
  - Roofing
  - Tanks
  - Leading edge construction
  - Aircraft maintenance
  - Ships
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  - Construction sites
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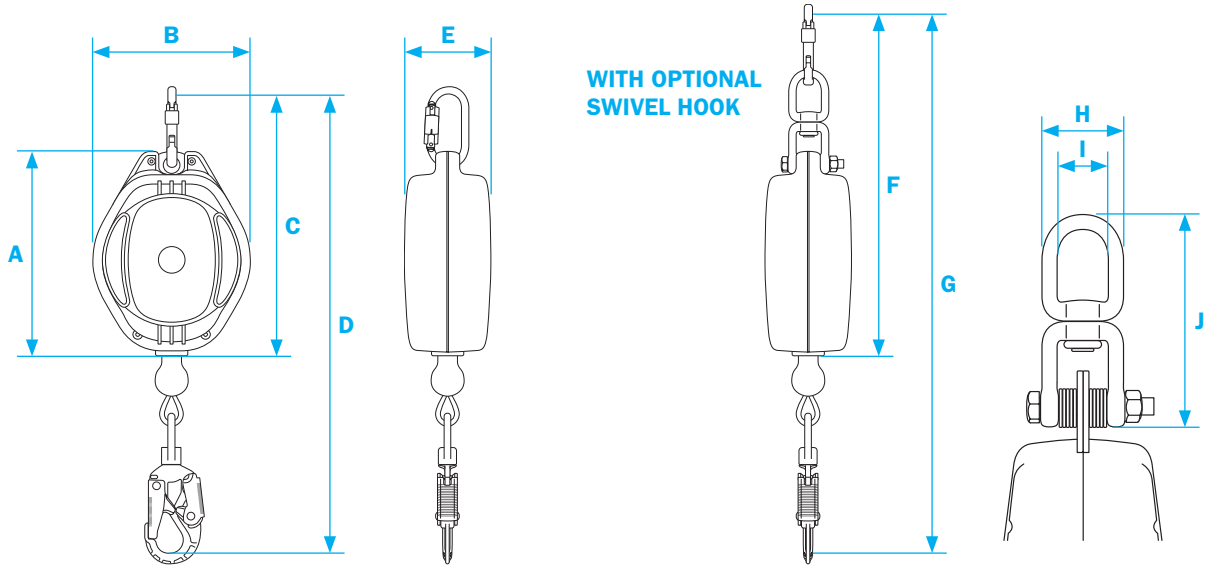
APPLICABLE STANDARDS

- CSA Z259.2.2-17
- ANSI Z359.14-2014
- OSHA

AVAILABLE MODELS

- **RA20G** blocfor® B20 with 20 ft. (6 m) galvanized wire rope
- **RA30G** blocfor® B20 with 30 ft. (9 m) galvanized wire rope
- **RA20S** blocfor® B20 with 20 ft. (6 m) stainless steel wire rope
- **RA30S** blocfor® B20 with 30 ft. (9 m) stainless steel wire rope
- **RA30G/LE** blocfor® B20 Leading Edge with 30 ft. (9 m) galvanized wire rope



SPECIFICATIONS	RA20G	RA30G	RA20S	RA30S	RA30G/LE
CASING CONSTRUCTION	Polyamide 6/ABS				
LENGTH	20 ft. (6 m)	30 ft. (9 m)	20 ft. (6 m)		30 ft. (9 m)
CONSTRUCTION	3/16 in. (4.7 mm) dia. 7 X 19 galvanized steel preformed wire rope with ordinary lay right SZ and IWRC core		3/16 in. (4.7 mm) dia. 7 X 19 stainless steel preformed wire rope with ordinary lay right SZ and IWRC core		3/16 in. (4.7 mm) dia. 7 X 19 galvanized steel preformed wire rope with ordinary lay right SZ and IWRC core
MINIMUM BREAKING STRENGTH	Galvanized steel 3,304 lbs. (14.7 kN)		Stainless steel 3,597 lbs. (16 kN)		Galvanized steel 3,304 lbs. (14.7 kN)
ROPE TENSION	11 lbs. (50 N)				
UNIT WEIGHT	11.9 lbs. (5.4 kg)				
LENGTH (A)	9½ in. (241.5 mm)				
WIDTH (B)	7 15/32 in. (189.9 mm)				
SUSPENSION HEIGHT (C)	12½ in. (316 mm)				
SUSPENSION HEIGHT FROM HOOK TO HOOK (D)	22½ in. (572 mm)				
DEPTH (E)	3 45/64 in. (94 mm)				
SUSPENSION HEIGHT WITH SWIVEL (F)	14¼ in. (362 mm)				
SUSPENSION HEIGHT WITH SWIVEL FROM HOOK TO HOOK (G)	24⅛ in. (618 mm)				
SWIVEL EXTERIOR WIDTH (H)	1⅝ in. (41 mm)				
SWIVEL INTERIOR WIDTH (I)	1 in. (25 mm)				
SWIVEL LENGTH (J)	4 3/16 in. (106 mm)				
CARABINER Ø	⅜ in. (9.5 mm)				
MAXIMUM ARRESTING FORCE	1,800 lbs. (8 kN)				
MAXIMUM FALL ARREST DISTANCE	43 in. (1.1 m)				
CAPACITY	310 lbs. (140 kg), one person				

Specifications are subject to change without notice. Images are for illustrative purposes only.