REACTOR

REACTOR is an energy absorber suitable as a basic component in a fall arrest system according to the standard EN 355. The wide range of combinations of components in the system will allow you to find the right solution for your specific work situation.

DESCRIPTION

The base material of the energy absorber is HMPE with two sewn polyester eyes.

The energy absorber is enclosed in a durable molded cover made of polyester fabric with a hook-and-loop closure.

Available in a basic length of 20 cm (eye-to-eye) and a custom extended length of 40 cm for applications where a flat shape is important.

For connection to the full body harness, we recommend the OXY BC triple lock carabiner or other suitable EN 362 connectors.

For easy connection of the lanyards to the energy absorber, we recommend the RINGO openable ring or the appropriate connectors EN 362.

The maximum active breaking length is 150 cm.

A fall indicator is sewn onto the energy absorber to allow easy control of activation.

Marked with a unique serial number for easy traceability and inspection.

KEY FEATURES

- users 50 – 150 kg
- deal for workers on structures, ladders and brace masts
- low weight and practical shape do not restrict the user at work

STANDARDS

CE 1019

EN 355

Recommendation for Use No. CNB/P/11.074 – horizontal use

Recommendation for Use No. CNB/P/11.062 – testing with higher loads

Recommendation for Use No. CNB/P/11.063 – static test & dynamic test an integral lanyards

FEATURES

cm / in	MAX 1	WLL		№	3 YEARS
20; "L" 40 cm 7.9; "L" 15.7 in	1 person only	50–150 kg 110.2–330.7 lb	100 g / 3.53 oz	unique number	warranty

MATERIALS

- **89 %** HMPE
- **10 %** PES
- **1 %** PAD

TECHNICAL DATA

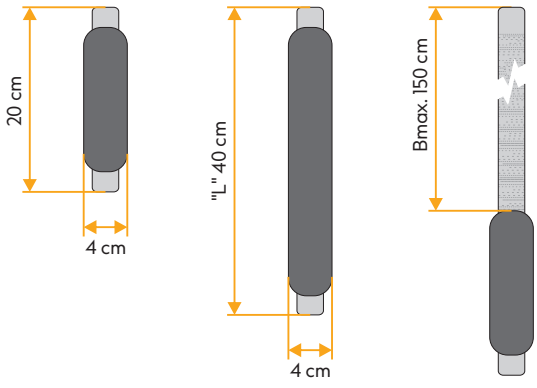


TABLE OF SIZES

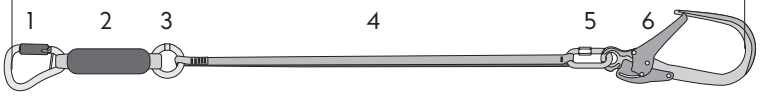
TYPE	CODE	CONNECTOR	LENGTH OF SYSTEM [cm]	WEIGHT [g]	RFU 11.074
"I" 85 cm	W4510W085	-	85	180	✓
	W4511W085	K370	100	330	✓
	W4512W085	K353	110	680	✓
	W4513W085	K355	120	1160	✓
"I" 155 cm	W4510W155	-	155	220	✓
	W4511W155	K370	170	370	✓
	W4512W155	K353	180	760	✓
	W4513W155	K355	190	1200	✓
"Y" 85 cm	W4520W085	-	85	310	✓
	W4521W085	2× K370	100	540	✓
	W4522W085	2× K353	110	1220	✓
	W4523W085	2× K355	120	2140	✓
"Y" 155 cm	W4520W155	-	155	320	✓
	W4521W155	2× K370	170	620	✓
	W4522W155	2× K353	180	1320	✓
	W4523W155	2× K355	190	2240	✓
EYE "Y" 155 cm	W4530W155	-	155	320	✓
	W4533W155	2× K355	190	2240	✓
RING "Y" 155 cm	W4540W155	-	155	460	✓
	W4541W155	2× K370	170	760	✓
	W4542W155	2× K353	180	1440	✓
ROPE "I" 85 cm	W4550X085	-	85	220	✓
	W4552X085	K353	110	720	✓
	W4553X085	K355	120	1190	✓
ROPE "I" 155 cm	W4550X155	-	155	300	✓
	W4552X155	K353	180	800	✓
	W4553X155	K355	190	1270	✓
ROPE "Y" 85 cm	W4560X085	-	85	330	✓
	W4562X085	2× K353	110	1330	✓
	W4563X085	2× K355	120	2270	✓
ROPE "Y" 155 cm	W4560X155	-	155	450	✓
	W4562X155	2× K353	180	1450	✓
	W4563X155	2× K355	190	2390	✓
ADJUST	W4570Y100	-	100–160	350	✓
	W4571Y100	K370	115–175	500	✓
	W4572Y100	K353	125–185	850	✓
	W4574Y100	K0124	115–175	467	✓
FLEX "Y" 85 cm	W4580X085	-	85	260	✓
	W4582X085	2× K353	110	1285	✓
	W4583X085	2× K355	120	2185	✓
	W4584X085	2× K0124	100	495	✓
FLEX "Y" 155 cm	W4580X155	-	155	360	✓
	W4582X155	2× K353	180	1355	✓
	W4583X155	2× K355	190	2280	✓
	W4584X155	2× K0124	170	595	✓

LANYARDS AND CONNECTORS

COMPONENT SET

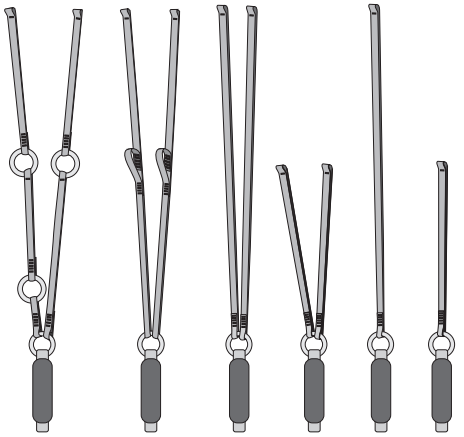
The length of the fall arrest system (A) may not exceed 2 m.

A = Lc + Lsa + Lc + **LL** + Lc = **max. 200 cm**



1; 5; 6 = CONNECTOR (**Lc**) =>
2 = REACTOR (**Lsa**) =>
3 = RING or CONNECTOR (**Lc**) =>
4 = LANYARD (**LL**) =>

REACTOR (16 MM WEBBING)

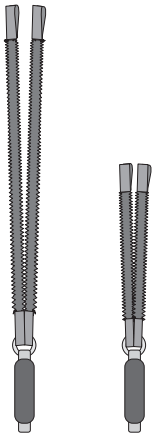


RING Y 155 cm W454 | **EYE Y** 155 cm W453 | **Y** 155 cm W452 | **Y** 85 cm W452 | **I** 155 cm W451 | **I** 85 cm W451

REACTOR ROPE

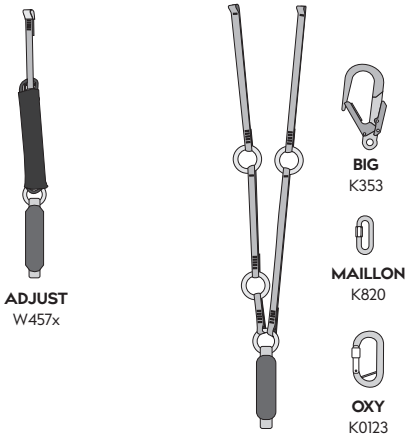
ROPE I 155 cm W455 | **ROPE I** 85 cm W455 | **ROPE Y** 155 cm W456 | **ROPE Y** 85 cm W456

REACTOR FLEX



FLEX Y 155 cm W458 | **FLEX Y** 85 cm W458

REACTOR ADJUST AND OCTOPUS



ADJUST W457x

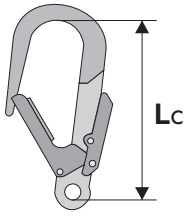
OCTOPUS W45*

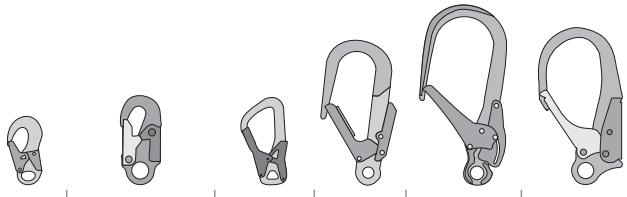
BIG K353

MAILLON K820

OXY K0123

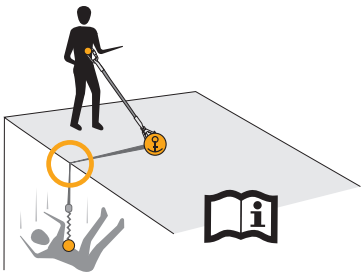
EN 362 (RECOMMENDED CONNECTORS)

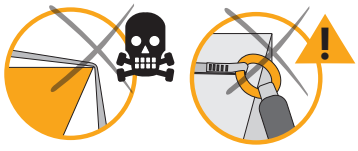




	SMALL K370	SMALL STEEL S-3611	PALM K0124	BIG K353	GIGA K355	BIG STEEL S-3615	RINGO K7002	BORA K0107	HECTOR K0121	OXY K0123	MAILLON K820
Lc [mm]	11	11	13	22	32	21	5	8	10	9	6

RFU 11.074

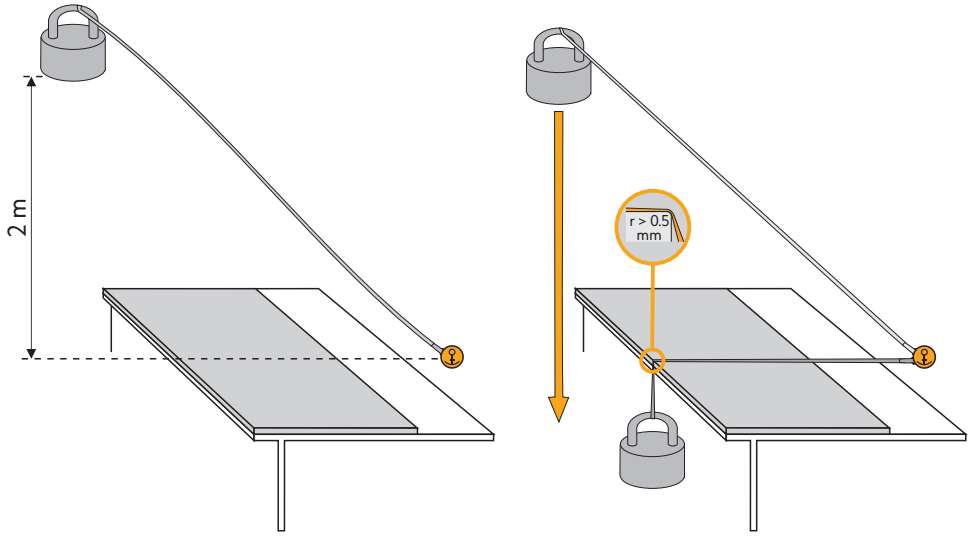




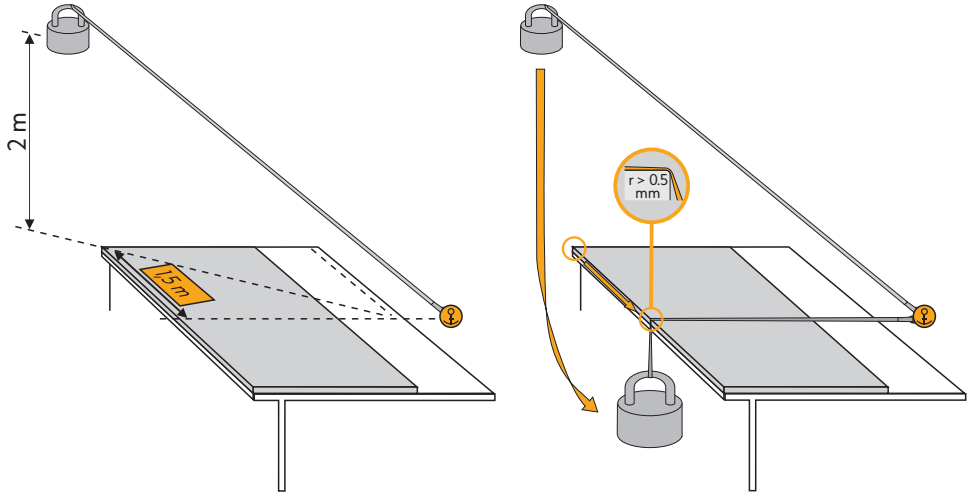
The lanyard and energy absorber in table has been successfully tested for horizontal use and a resulting simulated fall over an edge.
A steel bar with a radius of r = 0.5 mm with no burs and mass 100 kg and 140 kg was used in these tests.
On the basis of this test, the lanyard with energy absorber is suitable for use over similar edges such as rolled steel profiles, wooden beams or a clad, rounded proof parapet. Notwithstanding this test, the following must be taken into account with a horizontal or oblique use where there is a risk of falling over an edge.

1. Before start of work make a risk assesmet, if is the risk of particulary sharp edge (e.g. unclad proof parapet or sharp concrete edge) is necesary eliminate risk of falling over the edge or an edge protection should by mounted before the start of work. In case of doubt contact the manufacturer.
2. The anchor point for the lanyard and energy absorber may not be below the user's stand level. (e.g. platform, flat roof).
3. The deflection at the edge (measured between the two legs of the fastener / mobile guide) must be at least 90°.
4. The necessary free space beneath the edge.
5. The lanyard must always be used in such a way that there is no slack rope. If the lanyard is equipped with a length adjustment device, this may only be used if the user is not moving in the direction of the fall edge.
6. To prevent a pendulum fall, the working area and lateral movements from the median axis on both sides should be limited in each case to a max. of 1.50 m. In other cases, no individual anchor points should be used but rather a Class C or D anchor device pursuant to EN 795:2012.
7. Note: If the lanyard/energy absorber is used with a Class C anchor device pursuant to EN 795:2012 with a horizontal flexible anchor line, the deflection of the anchor device must also be taken into account when determining the necessary clearance beneath the user. Pay attention to the details in the instructions of use of the anchor device.
8. Note: After a fall over an edge there is a risk of injuries during capture if the falling person knocks against parts of the building or construction.
9. Special rescue measures are to be stipulated and trained in the event of a fall over an edge.

RFU 11.074 Test no. 1

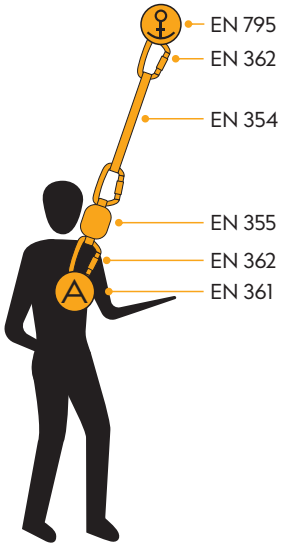


RFU 11.074 Test no. 2



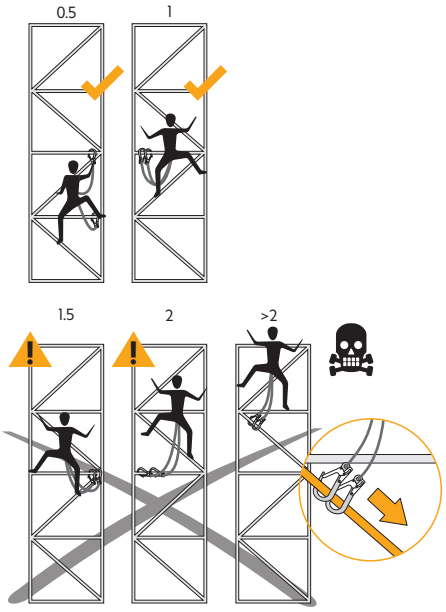
WARNINGS AND RECOMMENDATIONS

FALL ARREST SYSTEM



MIN. 2 PEOPLE IN THE WORKPLACE

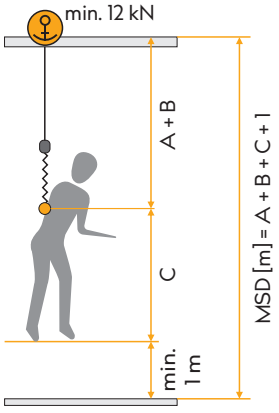
FALL FACTOR



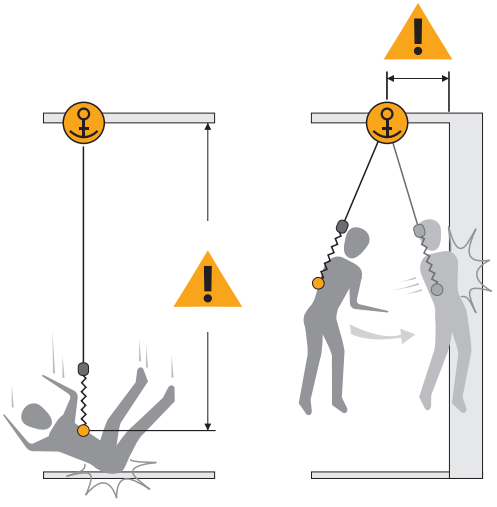
MINIMAL SAFETY DISTANCE

MSD
= min. safety distance

Before use, it is necessary to check the safe distance under the user's feet, which depends on the weight of the user, the height of the anchor point and the length of the fall arrest system. See **www.singingrock.com** for more information on calculating the minimum safe distance under the user's feet.

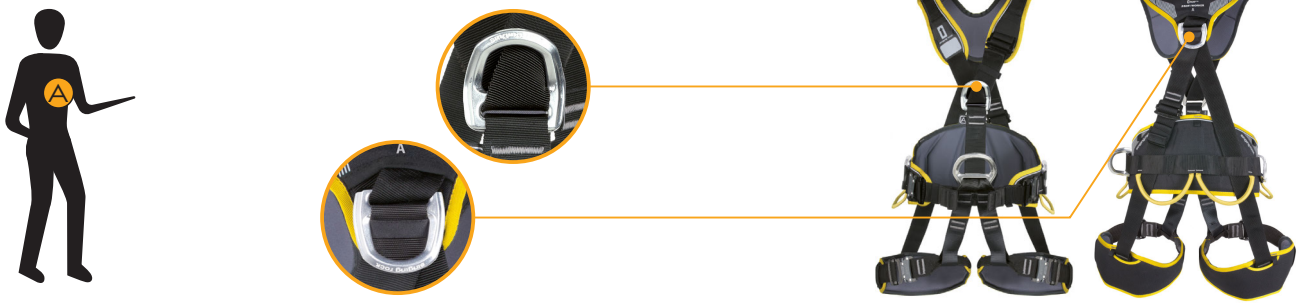


RISK OF GROUND IMPACT & DANGER OF SWING



!!! WARNING !!!
danger of swing
risk of ground impact

ATTACHMENT ACCORDING TO EN 361



COMPARISON

REACTOR - REACTOR 140

- 70 g lighter
- smaller and practical shape
- WLL for users up to 150 kg (including the equipment)

REACTOR 140

MAINTENANCE

Lifetime of this product depends on the frequency and the environment (salt, sand, moisture, chemicals, etc.) in which is used. Without taking wear or mechanical damage into account and in compliance with the conditions specified in the instructions for use this product may be used 15 years from the date of production and 10 years from the date of the first use.
However mechanical damage can occur during the first use, which can limit the lifetime of this products only to its first use.

beware of salt | beware of UV | beware of chemicals | washing | drying | read instructions

NOTES