

Latchways Personal Rescue Device® (PRD)

Integrated harness system
for self rescue

R20





Latchways is the world leader in the development of fall protection systems based on a philosophy of utilising innovative design to ensure:

- engineering integrity protects the user from the hazards of working at height
- the product/solution can be easily incorporated into the built/working environment
- the user is able to continue working freely at height.

The integrity of Latchways products is defined by the following key criteria:

- **Smarter**—they are innovatively designed to achieve 100% performance reliability
- **Stronger**—they are manufactured using the highest grade materials
- **Safer**—they are fully tested in-house to exceed all required standards which is then verified by independent external test houses
- **The result**—better products.

The need for a rescue plan

There is a legal obligation to have a full and comprehensive rescue plan in place when individuals are working at height. The 'Work at Height Regulations (2005)' require employers to make specific provisions for emergency planning.

"Organisation and planning – Regulation 4

1 Every employer shall ensure that work at height is... properly planned

2 ...planning of work includes planning for emergencies and rescue."

The HSE states:

"The law requires that when you work at height, you also plan for emergencies and rescue. These arrangements should not rely on the fire brigade as this may result in a delay which may be critical."

www.hse.gov.uk/construction/faq-height.htm

The Latchways Personal Rescue Device® (PRD)

Latchways has revolutionised the rescue process with the development of the PRD—an integrated harness system allowing self-rescue. The lightweight, unobtrusive rescue device is contained in a small 'backpack' attached to a full body harness and is designed to be used in conjunction with a fall protection system or anchor point.

In the event of a fall the PRD harness suspends the user and then allows them to gently lower themselves to the ground in a controlled descent. The device features a 20 m (65 ft) spool of Aramid rope which is released at a controlled rate through an integral braking mechanism. The innovative design uses quality componentry and a limited number of moving parts to always ensure 100% mechanical integrity.

Latchways Personal Rescue Device

Ease of use

The patented Latchways componentry has been designed to fit neatly into the 'backpack' to ensure the worker can safely go about their daily work. The 'backpack' zips onto the harness so that it becomes part of everyday work wear for those who work at height. The harness is lightweight and unobtrusive but also robust, ensuring it can withstand the rigours of the harshest working environments.



Rescue benefits

- Significantly reduces rescue time
- Always available
- Self-activated
- Intuitive use
- Clear rescue plan
- Improves user safety

The PRD range

The PRD is available in two harness types, RH2 and RH3.



PRD RH2

20 m (65 ft) descent device, backpack and 2-point harness with chest D-ring.

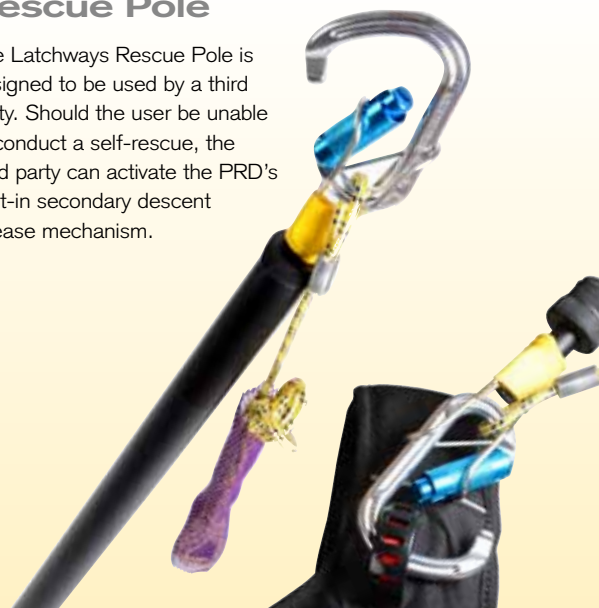


PRD RH3

20 m (65 ft) descent device, backpack and 4-point harness with front D-ring, plus work positioning belt with side D-rings.

Rescue Pole

The Latchways Rescue Pole is designed to be used by a third party. Should the user be unable to conduct a self-rescue, the third party can activate the PRD's built-in secondary descent release mechanism.



Minimal training and fast rescue

User training

Unlike all other rescue kit, no specialist training is required as the PRD is worn in place of a standard full body harness and activation is achieved by simply pulling the release cord.

Pre-use checks

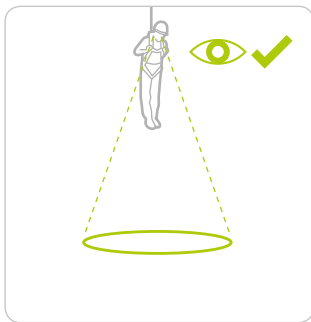
The PRD has been designed to be user-friendly and as such pre-use checks are minimal. The descent device, harness and backpack should be checked for any signs of:

- use (a descent has been performed)
- damage
- corrosion
- chemical attack.

Periodic examination is required at least annually or more frequently to adhere with corporate PPE inspection schedules.



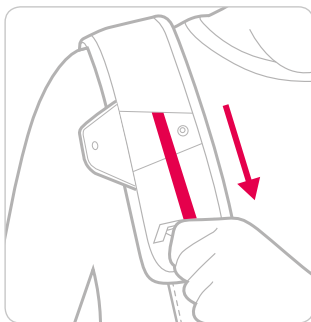
User instructions



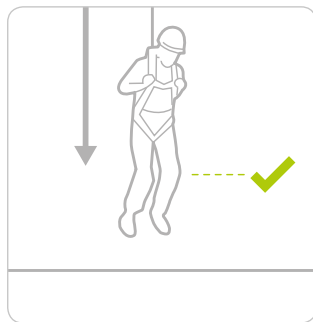
- 1 Check the ground below to ensure descent path is clear and a safe landing is possible.



- 2 Open the flap on the right shoulder strap to access the release cord.



- 3 Pull sharply on the release cord.



- 4 Prepare for landing by bending knees.

Key facts

- **Descent height:**
20 m (65 ft).
- **Complete weight:**
3.6 kg (7.9 lbs) (1 kg (2.2 lbs) harness/2.6 kg (5.7 lbs) rescue device).
- **User weight:**
59 – 140 kg (130 lbs – 309 lbs).
- **Descent speed:**
0.5 – 2 m (1.6 – 6.6 ft) per second.
- **Secondary release mechanism:**
Should the user not be able to rescue themselves, the device can be activated by a third party.
- **Component parts:**
Descent line made from Aramid rope.
- **Training:**
Minimal user training required—no annual user refresher training required.
- **Maintenance:**
Periodic examination limited to a series of visual inspections carried out by a competent person (full instructions provided).



Latchways Personal Rescue Device

Standards

The Latchways PRD consists of a full body harness and integral descender device that conforms to all the required standards:

The harness conforms to

- EN361: 2002
- ANSI Z359.1:2007

The descender device conforms to:

- EN 341: 2011 Type 1, Class D
- ANSI Z359.4:2007

The 'backpack' and harness conform to:

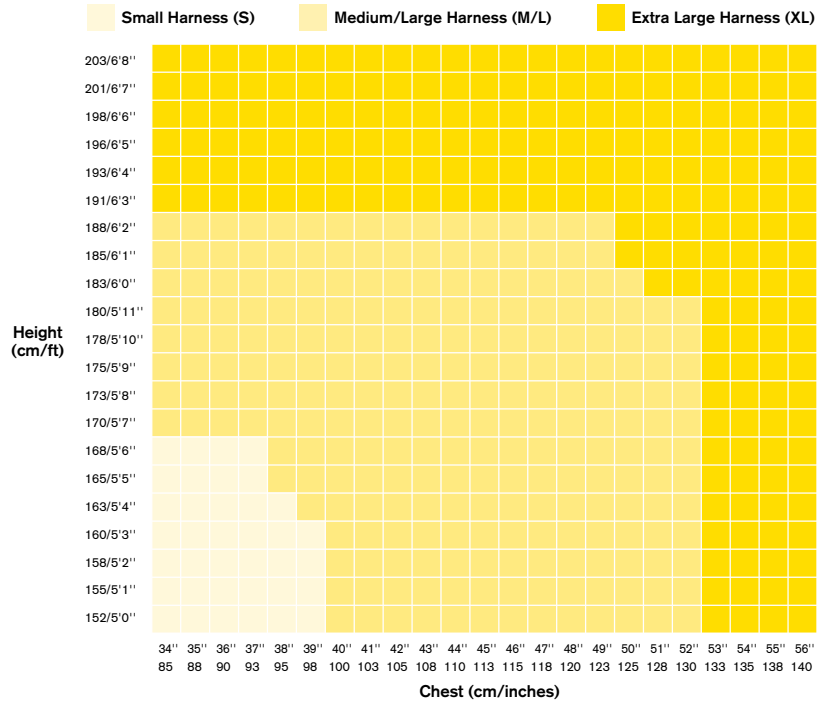
- Waterproof and dustproof IP56 (Ingress Protection)
- -20°C to +60°C Operating temperature
- ATEX rated for use in explosive environments



II 2 G c IIC T3

IP56

PRD Harness Sizing Guide



This harness sizing chart is offered as a guide only. Latchways accepts no liability should the size chosen be incorrect.

Latchways plc

All around the world, people work safely at height thanks to Latchways' fall protection systems. With over 35 years' experience at the cutting edge of fall protection Latchways set the standard for innovation, performance and quality. The versatility, dependability and ease of use of Latchways ManSafe® products is the reason they are trusted to ensure worker safety on a wide range of applications, protecting people as they go about day-to-day activities such as maintenance, cleaning, and inspection.





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