

Latchways Personal Rescue Device

Integrated harness system
for self rescue

R20



Latchways—world leaders in the development of innovative fall protection



Latchways are the world leaders 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:

- they meet/exceed all the required safety standards
- are manufactured using the highest grade materials
- are internally and externally tested to ensure performance is 100% reliable

Being first in the world

Latchways likes to make a habit of being first in the world, developing systems such as the energy absorbing rooftop fall protection (Constant Force®) posts and field serviceable Self Retracting Lifelines (SRL).

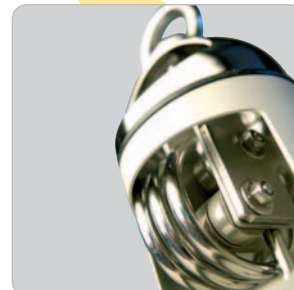
The process of creating safety whilst working at height is considered not only from the view point of pure functionality of the product but also takes into account contemporary working practices. The Latchways solution often leads to revised working practices that benefit the customer in terms of both time and money.

First to develop energy absorbing rooftop fall protection

System absorbs fall load

Top fix to all roof types

Reduced cost of installation



The steel coil absorbs the energy created by a fall.

First to develop field serviceable SRLs

Modular design

100% reliability

On-site maintenance reduces service costs



Modular componentry allows quick field servicing.

Latchways Personal Rescue Device



First to develop a Personal Rescue Device (PRD)

Latchways is set to revolutionise the rescue process with the introduction of the PRD which utilises innovative design technology. The lightweight, unobtrusive rescue device is contained in a small 'back pack' attached to a harness. In the event of a fall the device lowers the faller gently to the ground in a controlled descent.

The whole rescue process has been revolutionised by the Latchways engineering in the 'back pack' which contains:

- a parachute type 'rip cord' that releases the descending system
- a brake mechanism and spool with a 20 m* cord gently lowers the faller to the ground
- a standard harness that can be easily released allowing quick evacuation from the fall zone

The PRD is built into a standard harness which is supplied by Latchways or can be retrofitted into an existing harness**.



Mechanical integrity

The innovative design uses quality componentry and a limited number of moving parts ensuring 100% mechanical integrity which is defined by the design standards the device meets and exceeds.

*Different cord lengths will be available in the future.

**Retrofitting the harness should not be done without first contacting Latchways design department.

The world's first harness integrated Personal Rescue Device

Ease of use

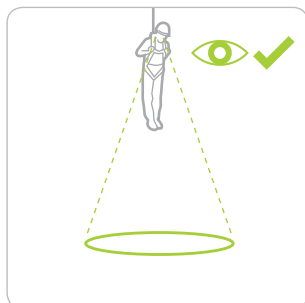
The patented Latchways componentry has been designed to fit neatly into the 'back pack' to ensure the worker can safely go about their daily work. The 'back pack' zips onto the harness so that it becomes part of everyday work wear for those who work at height. It's lightweight and unobtrusive but also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



Minimal training and fast rescue

Unlike all other rescue devices no specialist training is required as the device is worn as part of a standard harness and activation is achieved by simply pulling the 'rip cord'.

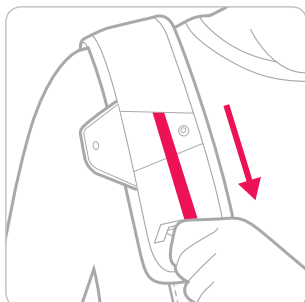
Once the 'rip cord' is pulled the spool and its integral braking mechanism lower the faller to the ground in a controlled descent.



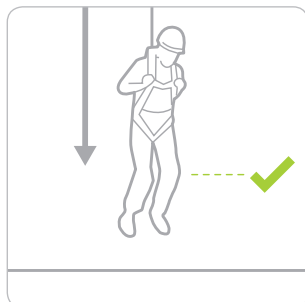
- 1 Check the ground below to ensure descent path is clear and a safe landing is possible.



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



- 3 Pull sharply on the 'rip cord'.



- 4 Prepare for landing by bending knees.

Creating your risk assessment using the Latchways PRD

Latchways recognise the complexity of creating risk assessments and the myriad of procedures that often need to be detailed to cover the rescue element of the assessment. The Latchways PRD offers the opportunity to simplify these processes and, to cover all the eventualities likely to arise, have a built in secondary descent release mechanism.



Secondary descent release mechanism.

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 'back pack' and harness conform to:

- BS EN 13463-1:2001 equipment group 11 category 2



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Latchways Personal Rescue Device

The complete fall protection solution



Latchways offer the complete fall protection solution whatever the industry

Whatever environment you work in, oil and gas, utilities, construction, transport or industrial, Latchways can supply and install all the necessary systems to ensure your fall protection requirement is covered by one single manufacturer. To find out more about the specification process and how to meet the legislation contact info@latchways.com





Constant Force® is a registered trademark of Latchways plc