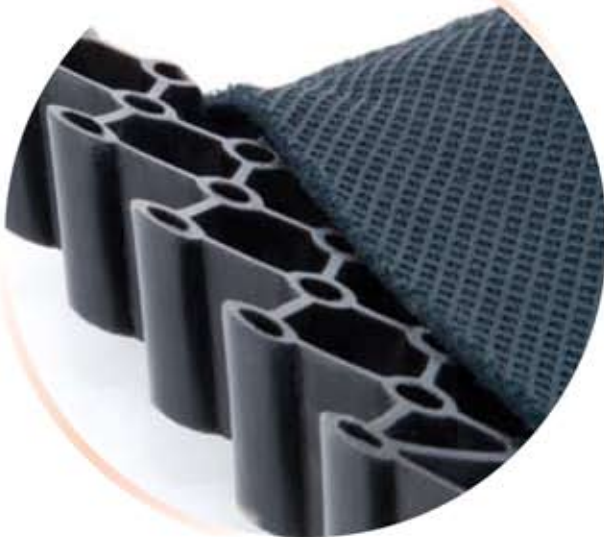


Redbacks™

Suspension for your knees



Slide-in kneepads for use in pocketed work trousers



- Unrivalled cushioning for the knee
 - Uniquely designed with the patented Matrix impact system™
 - Redbacks™ reduce chronic injury to those kneeling for any length of time
 - Redbacks™ use plastics instead of foams, ensuring a lower wear rate and longer optimum level
 - Redbacks™ slide directly into the pockets of work trousers
 - Appear in both heavy and lightweight versions
 - Outperformed strapped and slide-in knee pads in recent tests*
 - Redbacks™ last 10 times longer than current foam competitors**
- * Under laboratory conditions, Redbacks™ surpassed conventional strapped knee pads by 30% and slide-in pads by 50% in impact and walk tests.
- ** Proven in clinical tests to reduce the need for regular replacement at an estimated 10 times in comparison to current brands.

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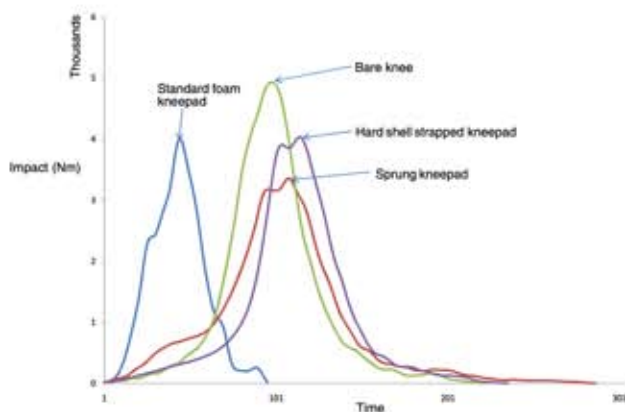
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Redbacks™ Suspension for your knees

Redbacks™ Matrix impact system™ is composed of a tubular matrix holding a spring in place. The critical positioning of the spring provides a large uniform area to take the pressure and disperse it evenly through the structure and into the ground. The matrix itself is curved to contour around the knee and prevent rocking but also has enough movement to allow for small muscle contractions and the shifting of the knee cap under pressure. The materials used are engineering plastics, and of a quality never before seen in a kneepad. Plastics behave very differently from foams and the design of the Redbacks™ is different; rather than a flat sandwich construction, it is a suspension construction, with material and design function taking precedence over simple material laying. With this in mind the plastics provide a structure that will retain its original form and constant and repetitive loading and not degenerate with each use. Foam-based sandwich constructions use air in their structure to cushion the knee from the ground. Under constant and repetitive use, the air in the foam structure cells burst, consequently the foam becomes compressed and solid.

Redbacks™ use a different system, therefore work better, harder and for longer.

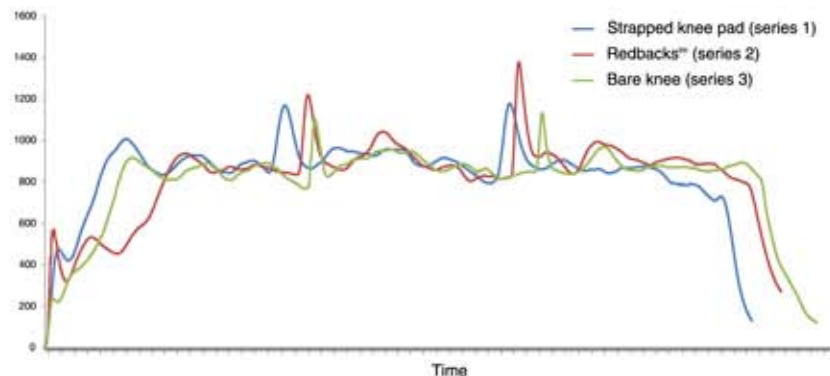
Soft tissue injuries account for 20% of all compensation cases and bursitis or overuse injury of the knee is the main cause of this chronic injury. Utilities, construction, telecoms and maintenance engineers are particularly at risk as are those with trades within all of these industries and it has been proven that good protection of the knee will reduce the incidence of these injuries.



The impact curves are a representation of a drop test exceeding the BSI (14404:2004) standard. The load rates represent a fast loading and a lack of initial cushioning for the standard foam pad and the bare knee. The slower load rates of the hard shell and slide-in Redbacks™ represent the cushioning effect of the pad against the floor. The impact peaks are the most important measure and represent a user kneeling down for the first time on the pads to perform any task. The BSI standard has a peak value of 4KNm². Transmitting 3.3KNm² of force, Redbacks™ are significantly superior to those kneepads currently on the market.

The walk test, that is subjects 'walking' on their knees, shows the bare knee displaying the lowest value and represents the subject protecting themselves as is common practise when taking that first tentative 'step' on the knee. The human body will put the smallest amount of pressure against an object in order to protect itself from harm. The comparisons in the first 'step' between the bare knee, slide-in pad and the Redback™ are seen as this tentative first 'step' and the natural defence mechanism kicking in.

The subsequent second 'step' is critical, as the body has assumed it can put more weight through the knee at this point. The Sprung kneepad allows the user to put 20% more force through the knee when walking than the slide-in-pad. To put another way the Redbacks™ are 70% better at absorbing the force of a human subject when walking on the knee than a slide-in knee pad currently on the market.



Technical specifications	Heavyweight	Lightweight
Materials	TPE	TPE
Length	210mm	210mm
Width	167mm	167mm
Height	35mm	20mm
Covering	Spacer fabric	Spacer fabric
Max load	200kg	200kg

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