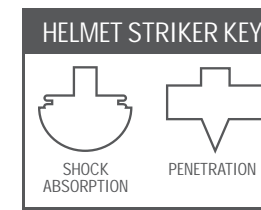
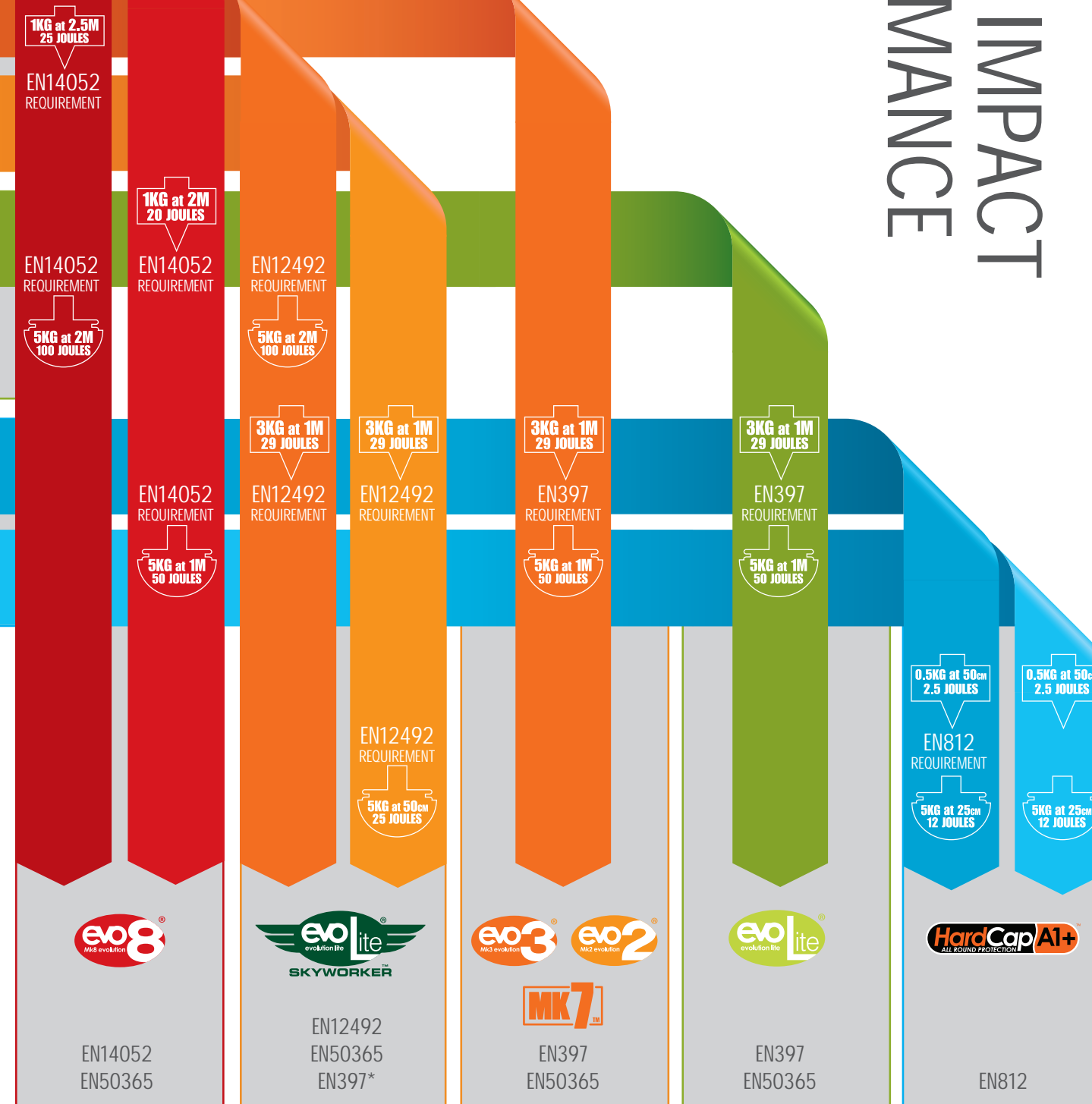


# HOW WE MEASURE UP...

JSP's Star Guide is based on the ability of a helmet to absorb impact energy measured in Joules (J).



# HELMET IMPACT PERFORMANCE RATING



## EN STANDARDS EXPLAINED

**EN397 THE STANDARD INDUSTRIAL SAFETY HELMET STANDARD** This standard goes back over 50 years and testing is only carried out to the top of the helmet. A 49J impact only to the crown of the helmet measures the shock absorption and a penetration test with a 3kg conical striker from 1m. There is no side impact test in this standard only a lateral rigidity test, which is a slow, progressive force loading, and is not an impact test.

**EN14052 THE STANDARD FOR HIGH PERFORMANCE INDUSTRIAL SAFETY HELMETS** The specification includes the requirement for side impact protection. Tests require that the shell is subjected to a total of 150J of impact energy, 100J to the top of the helmet and 50J to the side (up to 60° from the crown) of the helmet. Penetration

testing is also required with a "blade" striker being dropped from 2.5m to give an impact energy of 25J on to the top of the helmet and on to the side of the helmet with an impact energy of 20J from 2m.

**EN12492 THE STANDARD FOR MOUNTAINEERS** A helmet complying to the mountaineering standard is impact tested with two 5kg strikers. A hemispherical striker is dropped from 2m onto the crown of the helmet and a flat striker from 500mm on to the front, rear or side by tilting the headform to 30°. In all cases, the transmitted force through the neck of the headform must not exceed 10kN. Two penetration tests with a 3kg pointed striker are also performed within a 50mm radius of the helmet's crown without making contact with the headform. \*Meets the

shock absorption and impact test of EN397.

**EN50365 THE STANDARD FOR ELECTRICAL INSULATION** An additional specification for helmets used for working live installations up to 1000V. Testing is carried out at voltages of 10,000V. Vented helmets can meet this specification, although they cannot meet the electrical insulation requirements of EN397 and EN14052.

**EN812 THE STANDARD FOR INDUSTRIAL BUMP CAPS** This specification requires the cap being hit four times by a 5kg flat steel striker falling with 12 Joules of energy. A bump cap is intended to provide protection against bumps and scrapes to the head, it should not be used where falling or thrown objects are likely and should not be used where an industrial safety helmet is required.



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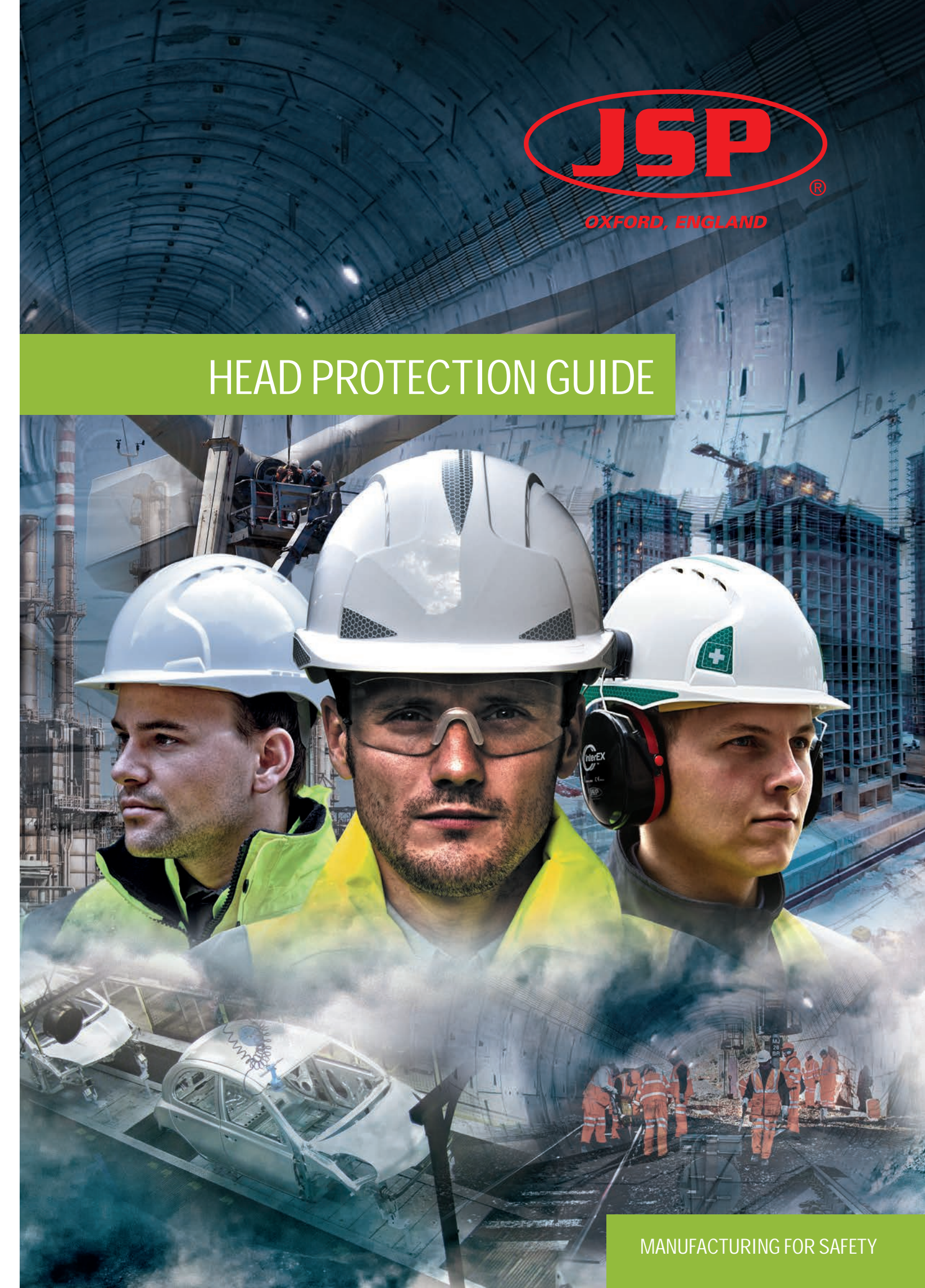
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## HEAD PROTECTION GUIDE




















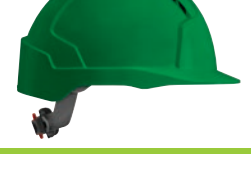
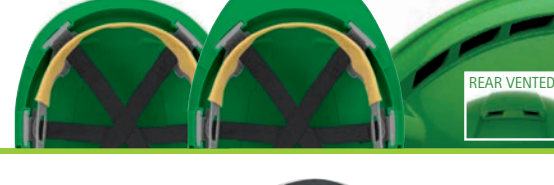


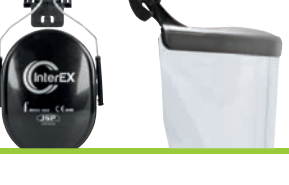















MANUFACTURING FOR SAFETY



STANDARD INDUSTRIAL SAFETY HELMETS

SPECIALIST SAFETY HELMETS

	MATERIALS, COMFORT & PEAK OPTIONS	ADJUSTMENT OPTIONS	ACCESSORIES			VERSIONS	EN STANDARD					TESTING & PERFORMANCE								
			REFLECTIVE CR2™ DECAL: Fitted as an option or sold separately.	INTEGRATED EYEWEAR: Fitted as an option or sold separately.	UNIVERSAL SLOTS: For simple fitting of ear defenders and visors.	Varieties of the helmet fitted with the required features and accessories for a specific task.	EN14052	EN397	EN50365	EN12492	EN812	Impact Resistance	Side Impact	Electrical Insulation EN397440 Vac	LD - Lateral Deformation	MM - Molten Metal	High Temperature	Low Temperature		
STANDARD INDUSTRIAL SAFETY HELMETS	<b>EV08® - HIGH IMPACT, SIDE IMPACT</b> The world's strongest industrial safety helmet with an EPS Liner for high impact and side impact.	 <ul style="list-style-type: none"> <li>✓ HDPE SHELL</li> <li>✓ EPS LINER</li> <li>✓ VENTED/UNVENTED</li> <li>✓ 4pt LUXURY COMFORT HARNESS</li> <li>✓ STANDARD PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ WHEEL RATCHET</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>			 <ul style="list-style-type: none"> <li>✓ MINERS VERSION</li> <li>✓ LINESMAN VERSION</li> <li>✓ RAILWAY VERSION</li> </ul>	✓	✓	✓			100 Joules	50 Joules	Unvented version		✓	✓	✓		
	<b>Mk7® - PROVEN PROTECTION</b> The classic EN397 safety helmet proven to withstand impacts, saving the lives of its wearers.	 <ul style="list-style-type: none"> <li>✓ HDPE SHELL</li> <li>✓ VENTED/UNVENTED</li> <li>✓ 8pt COMFORT HARNESS</li> <li>✓ STD/MICRO PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ WHEEL RATCHET</li> <li>✓ SLIP RATCHET</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>			 <ul style="list-style-type: none"> <li>✓ MINERS VERSION</li> <li>✓ LINESMAN VERSION</li> <li>✓ FORESTRY VERSION</li> </ul>			✓	✓			50 Joules		Unvented version		✓	✓	✓	
	<b>EV03® - SURPASSES EN397 TESTING</b> Combines a super strong shell with the comfort benefits of a 6-point terylene harness.	 <ul style="list-style-type: none"> <li>✓ HDPE SHELL</li> <li>✓ VENTED/UNVENTED</li> <li>✓ 6pt COMFORT HARNESS</li> <li>✓ MID/MICRO PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ WHEEL RATCHET</li> <li>✓ SLIP RATCHET</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>			 <ul style="list-style-type: none"> <li>✓ MINERS VERSION</li> <li>✓ FORESTRY VERSION</li> </ul>			✓	✓			50 Joules		Unvented version		✓	✓	✓	
	<b>EV02® - COST EFFECTIVE PROTECTION</b> Features the same super strong shell as the EV03® but has a 6-point polyethylene harness.	 <ul style="list-style-type: none"> <li>✓ HDPE SHELL</li> <li>✓ VENTED/UNVENTED</li> <li>✓ 6pt POLYETHYLENE HARNESS</li> <li>✓ MID PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ SLIP RATCHET</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>			 <ul style="list-style-type: none"> <li>✓ MINERS VERSION</li> </ul>				✓	✓			50 Joules		Unvented version		✓	✓	✓
	<b>EVOLite® - LESS THAN 300G</b> Weighing less than 300g*, the EVOLite® is the lightest safety helmet for sale in the UK. *Dependent on model	 <ul style="list-style-type: none"> <li>✓ ABS SHELL</li> <li>✓ VENTED</li> <li>✓ 6pt COMFORT HARNESS</li> <li>✓ MID/MICRO PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ WHEEL RATCHET</li> <li>✓ SLIP RATCHET</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>			 <ul style="list-style-type: none"> <li>✓ LINESMAN VERSION</li> <li>✓ FORESTRY VERSION</li> </ul>			✓	✓			50 Joules		Unvented version		✓	✓	✓	✓
	<b>HARDCAP A1+™</b> A market leading bumpcap featuring an all round protection shell and removable, washable liner.	 <ul style="list-style-type: none"> <li>✓ FABRIC OUTER</li> <li>✓ PLASTIC LINER</li> <li>✓ FOAM PADDING</li> <li>✓ MICRO, SHORT &amp; STANDARD PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ UNIQUE ADJUSTER</li> </ul>				<ul style="list-style-type: none"> <li>✓ WINTER VERSION</li> <li>✓ CLEAN AREA VERSION</li> <li>✓ HI-VISIBILITY VERSION</li> </ul>				✓		4x12 Joules	12 Joules						
SPECIALIST SAFETY HELMETS	<b>EVO6100® FULL BRIM</b> 5 striped shell with a brim that runs around the whole of the helmet for extra protection.	 <ul style="list-style-type: none"> <li>✓ HDPE SHELL</li> <li>✓ VENTED/UNVENTED</li> <li>✓ 6pt COMFORT HARNESS</li> <li>✓ FULL BRIM</li> </ul>	 <ul style="list-style-type: none"> <li>✓ WHEEL RATCHET</li> <li>✓ SLIP RATCHET</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>						✓	✓			50 Joules		Unvented version		✓	✓	✓	
	<b>Mk7® HI TEMP 150™</b> Combines the strength & comfort of the Mk7® with the ability to be effective at up to 150°C.	 <ul style="list-style-type: none"> <li>✓ ENGINEERING GRADE POLYAMIDE</li> <li>✓ UNVENTED</li> <li>✓ 8pt COMFORT HARNESS</li> <li>✓ STANDARD PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ WHEEL RATCHET</li> <li>✓ SLIP RATCHET</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>							✓	✓			50 Joules		Unvented version		✓	✓	✓
	<b>EVOLite® SKYWORKER</b> Height safety helmet with an EPS liner for industrial, mountaineering, rescue and leisure activities.	 <ul style="list-style-type: none"> <li>✓ ABS SHELL</li> <li>✓ EPS LINER</li> <li>✓ VENTED</li> <li>✓ 6pt COMFORT HARNESS</li> <li>✓ MICRO PEAK</li> </ul>	 <ul style="list-style-type: none"> <li>✓ WHEEL RATCHET</li> <li>✓ SLIP RATCHET</li> <li>✓ QUICK RELEASE CHIN STRAP</li> <li>✓ 3D™ HEIGHT ADJUSTMENT</li> </ul>						✓	✓	✓		100 Joules	50 Joules		✓	✓	✓	✓	

\*All numbers in this table are approximate