



HEAD SAFETY SOLUTIONS

Hard Hats • Bump Caps • Accessories

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ALWAYS SEEKING SAFER

At Centurion we believe in going further to protect the men and women who shape our world.

We innovate through insight

We invest in constant insight-led innovation – to ensure our products meet workers' complex and changing needs. 2019 saw an extensive insight project with our end user and wearer partners to gain unrivalled knowledge of the practical realities our protection needs to deliver against.

We are currently completing the design phase for a product that was born out of a UK Innovate grant titled Reimagining above-the-neck PPE. Central to this project were hundreds of hours spent on construction sites investigating problems and imagining solutions to better integrate above-the-neck personal protection.

We build transformative partnerships

We know that driving standards in safety isn't something we can do alone – so we work with partners in several worlds to tackle our industry's most complex issues.

As an independent company, we can partner with long-term objectives in mind. Our recent partnership with Headways, the UK brain injury charity, sees us come together over a shared goal to reduce the incidents of brain injury through greater awareness and understanding in the construction and industrial sectors.

2019 saw us further cement a multi-year partnership with Warwick University to develop breakthrough technologies in design and manufacturing. This will entail a shared use of advanced facilities and resources to help make safe even safer.

We create behavioural change through knowledge

We underpin all that we do with our unrivalled commitment to education and training – building the wearer knowledge and behaviors that, we believe, are central to safe working environments. You can find out more about our education initiatives at the end of this brochure. Please do enquire how we can tailor modules, tests and certificates for your business – either as a distribution or end user partner.

Over the coming year the educational content on our YouTube channel and website will continue to develop as our sustained investment starts to come to fruition in an extended suite of tools.

We look forward to what the next year has in store—and the next 140 years of course!!

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Safety is paramount

Safety as a checkbox



Potential Severity of Risk	High	Medium Plus				Medium				Low
General Purpose Hard Hat Systems	Nexus HeightMaster	Spectrum SecurePlus	Vision Plus SecurePlus	Nexus SecurePlus	Concept SecurePlus	Spectrum	Vision Plus	Nexus Core	Concept	1125
Safety Performance Credentials										
Objects falling	●	●	●	●	●	●	●	●	●	●
Lateral Deformation Protection	●	●	●	●	●	●	●	●	●	●
EN 397 Minimum Requirement	●	●	●	●	●	●	●	●	●	●
EN 397 exceeding standards 50%								●	●	
EN 397 exceeding standards >50%			●	●	●	●	●			
EN 12492 Front, side, rear & off crown tested	●									
The Centurion Difference										
BSI Kitemark		●	●	●	●	●	●	●	●	●
6 point cradle										●
Nylon Textile cradle										
6 point Terylene cradle		●	●	●	●	●	●	●	●	
Virgin Grade ABS Polymer		●	●	●	●	●	●	●	●	
Up to 3 x Tensile strength		●	●	●	●	●	●	●	●	
Up to 1.7 x Harder		●	●	●	●	●	●	●	●	
Dry Tech Sweatband for maximum comfort		●	●	●	●	●	●	●	●	
4 point SecurePlus EN 397 chinstrap			●	●	●					
4 point SecurePlus EN 12492 chinstrap		●								
High performance liner for improved impact		●								

NEXUS HEIGHTMASTER

Our pioneering hard hat combines an advanced high performance liner for improved impact with modern recreational styling - including a replaceable 4-point adjustable EN 12492 chinstrap.

ATTRIBUTES

- High performance liner provides extra shock and penetration protection according to EN 12492
- Easily replaceable chinstrap for improved hygiene
- Chinstrap side adjusters for improved wearer fit and comfort
- Polyester webbing ensures that it doesn't catch on workwear Velcro



STANDARD



OPTIONAL

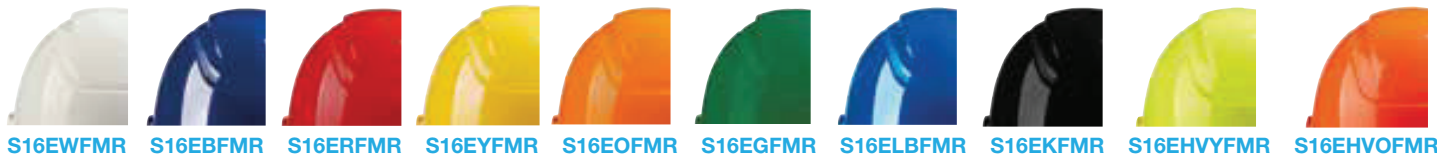


APPROVED TO

[EN 12492]
[ANSI/ISEA] Class C | LT
[AS/NZS 1801]

CONFORMS TO

[EN 50365]
[EN 397] LD | -40°C
(In respect of shock and penetration)



Product Codes: S16E*FMR (Wheel Ratchet Vented) / S30NL (Nexus Liner) / S30NY (EN 12492 Chinstrap) *Insert color of hard hat (i.e. W for White)

SPECTRUM SECURE PLUS

ABS safety hard hat system with integrated over glasses to deliver grade B EN166 impact protection and ANSI/ISEA Z87+. Also suitable for wearers of prescription eyewear.

ATTRIBUTES

- Eyewear provides extra lateral and bottom coverage and provides extra protection against particles
- Anti-scratch and anti-mist coating on eyewear provides improved durability and visibility
- Soft nose bridge for enhanced wearer comfort
- Full over glass adjustment built in to ensure the user can obtain a perfect fit
- **NEW** Spectrum with badge holder available



S20WR

S20BR

S20RR

S20YR

S20OR

S20GR

S20LBR

S20KR

S20HVYR

S20HVOR

Product Codes: S20*R (Wheel Ratchet) / S20*RL (SecurePlus Wheel Ratchet) / S20*RF (Vented Wheel Ratchet) / S20*RLF (SecurePlus Vented) / S576 (Spare Over Eye Glasses) / S576SE (Spare Smoke Over Eye Glasses) For Spectrum Badge Holder add SBH to product code

*Insert color of hard hat (i.e. W for White)

STANDARD



OPTIONAL



HARD HAT APPROVED TO

[EN 397] LD | MM | -40°C
[EN 50365]

VENTED

[ANSI/ISEA] Class C | LT

UNVENTED

[EN 397] 1000V a.c
[ANSI/ISEA] Class E | LT
[CAN/CSA] Z94.1-05

OVER GLASSES APPROVED TO

[EN 166] 1 | B | T
[EN 170] 2C-1,2
[ANSI/ISEA] Z87+
[CAN/CSA] Z94.3-07

VISION SECURE PLUS

Our industry-leading head protection system offers wearers of prescription glasses total safety reassurance with molded integrated eye protection uniquely certified to EN 166 grade A high impact levels and ANSI/ISEA Z87+.

ATTRIBUTES

- Optical clarity to Class 1 for continuous use - standard on all Centurion face protection
- Grade A High Energy Impact Protection to EN 166: providing the highest impact protection possible within EN 166 - better than any other integrated eyewear on the market
- Large side pull tabs enable the wearer to quickly and easily move the visor up and down even when wearing gloves
- Includes anti-scratch and anti-mist coating for improved durability and visibility



STANDARD



OPTIONAL



HARD HAT APPROVED TO

[EN 397] 1000V a.c | LD | MM |
-40°C [ANSI/ISEA] Class E | LT

VISOR APPROVED TO

[EN 166] 1 | A | T
[EN 170] 2C-1,2
[ANSI/ISEA] Z87+



S10PLUSEWA S10PLUSEBA S10PLUSERA S10PLUSEYA S10PLUSEOA S10PLUSEGA S10PLUSELBA S10PLUSEKA S10PLUSEHVYA S10PLUSEHVOA

Product Codes: S10PLUSE*A (Slip Ratchet) / S10PLUSE*R (Wheel Ratchet) / S10PLUSE*RL (SecurePlus Wheel Ratchet)
/ S577 (Spare clear visor)

*Insert color of hard hat (i.e. W for White)

NEXUS SECURE PLUS

Our multi award winning hard hat combines advanced industrial safety standards with modern recreational styling including a 4-point chinstrap for added stability, security and comfort.

ATTRIBUTES

- SecurePlus 4-point quick release chinstrap for added stability and comfort
- Chinstrap side adjusters for improved wearer fit and comfort
- Micro peak for maximum upward Visibility
- Polyester webbing ensures that it doesn't catch on workwear Velcro



STANDARD



OPTIONAL



APPROVED TO:

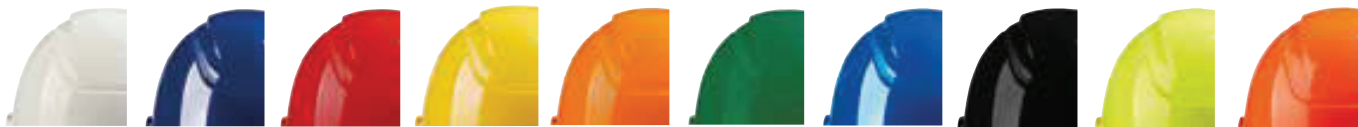
[EN 397] LD | MM | -40°C
[EN 50365]
[AS/NZS 1801]

UNVENTED

[EN 397] 1000V a.c
[ANSI/ISEA] Class E | LT | -40°C
[CSA/CAN] Class E

VENTED

[ANSI/ISEA] Class C | LT | -40°C
[CSA/CAN] Class C



S16EWRL S16EBRL S16ERRL S16EYRL S16EORL S16EGRL S16ELBRL S16EKRL S16EHVYRL S16EHVORL

Product Codes: S16E*RL (Wheel Ratchet) / S16E*L (Slip Ratchet) / S16E*RLF (Wheel Ratchet, Vented) / S16E*LF (Slip Ratchet, Vented)

*Insert color of hard hat (i.e. W for White)

CONCEPT SECURE PLUS

High safety with low weight. Reassuring strength with feel-good comfort.

ATTRIBUTES

- Complete with 4 point SecurePlus
- High performance ABS shell allows for optimal strength to weight ratio
- Internal card holder for identification or medical information
- **NEW** Concept Badge Holder version available



STANDARD



OPTIONAL



APPROVED TO:

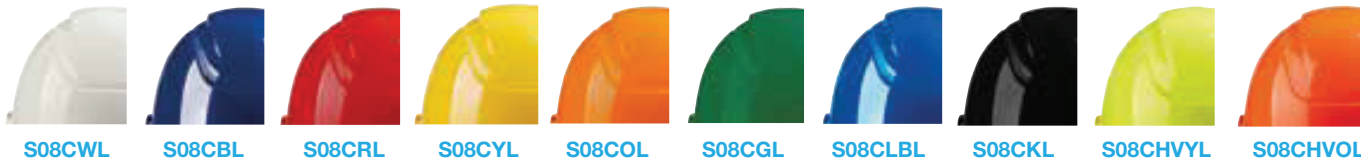
[EN 397] LD | MM | -40°C
[EN 50365]

UNVENTED

[EN 397] 1000V a.c
[ANSI/ISEA] Class E

VENTED

[ANSI/ISEA] Class C



Product Codes: Product Codes: S08C*L (Slip Ratchet) / S08C*RL (Wheel Ratchet) / S08C*LF (Slip Ratchet, Vented)
S08C*LRF (Wheel Ratchet, Vented) For Concept Badge Holder add CBH to product code

*Insert color of hard hat (i.e. W for White)

NEXUS CORE

Our multi award winning hard hat combines advanced industrial safety standards with modern recreational styling.

ATTRIBUTES

- Modularity as standard. Simply by adding accessories, you can have one hard hat style on site, with accessories to support different tasks
- High performance ABS material and creative design enables -40°C low temperature performance, lateral deformation and optimal strength to weight ratio allows for a strong, protective hard hat
- Optimized micro peak providing maximum upward visibility
- Dry-Tech Sweatband for maximum comfort, for extended periods of use



STANDARD



OPTIONAL



APPROVED TO:

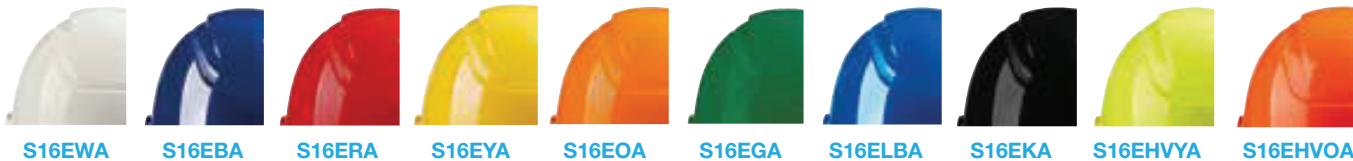
[EN 397] LD | MM | -40°C
[EN 50365]
[AS/NZS 1801:]

UNVENTED

[EN 397] 1000V a.c
[ANSI/ISEA] Class E | LT | -40°C
[CAN/CSA] Class E

VENTED

[ANSI/ISEA] Class C | LT | -40°C
[CSA/CAN] Class C



S16EWA S16EBA S16ERA S16EYA S16EOA S16EGA S16ELBA S16EKA S16EHVYA S16EHVOA

Product Codes: S16E*A (Slip Ratchet) / S16E*F (Slip Ratchet, Vented) / S16E*R (Wheel Ratchet) / S16E*RF (Wheel Ratchet , Vented)

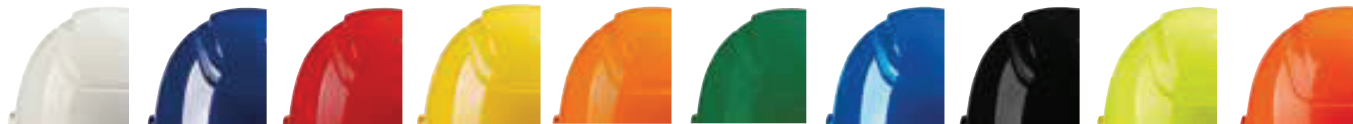
*Insert color of hard hat (i.e. W for White)

CONCEPT

High safety with low weight. Reassuring strength with feel-good comfort. Our Concept is the hard hat that tore up the rule-book.

ATTRIBUTES

- Manufactured from high quality, strong ABS material
- High performance ABS shell allows for optimal strength to weight ratio
- Unique extended nape ensures enhanced neck protection
- Dry-Tech Sweatband for maximum comfort, for extended periods of use
- **NEW** Concept Badge Holder version available



S09CWA S09CBA S09CRA S09CYA S09COA S09CGA S09CLBA S09CKA S09CHVYA S09CHVOA

Product Codes: S09C*A (Full Peak, Slip Ratchet) / S09C*F (Full Peak, Slip Ratchet, Vented) / S08C*A (Reduced Peak, Slip Ratchet) / S08C*F (Reduced Peak, Vented Slip Ratchet) / S09C*R (Full Peak, Wheel Ratchet) / S09C*RF (Full Peak, Wheel Ratchet, Vented) / S08C*R (Reduced Peak, Wheel Ratchet) / S08C*RF (Reduced Peak, Wheel Ratchet, Vented) For Concept Badge Holder add CBH to product code

*Insert color of hard hat (i.e. W for White)

STANDARD



OPTIONAL



APPROVED TO:

[EN 397] LD | MM | -40°C
[EN 50365]

UNVENTED

[EN 397] 1000V a.c
[ANSI/ISEA] Class E

VENTED

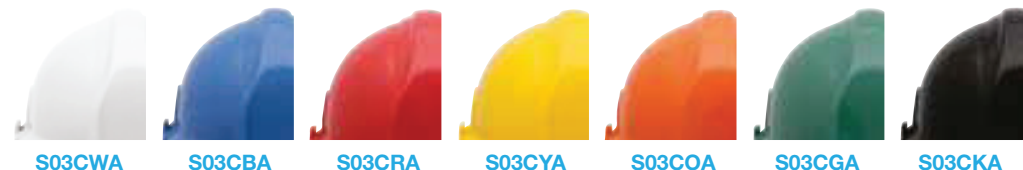
[ANSI/ISEA] Class C
[AS/NZS 1801] Class C

1125 CLASSIC

Our general purpose safety hard hat comes with a 6-point Terylene cradle and brushed nylon sweatband.

ATTRIBUTES

- Reduced or Full Peak available



Product Codes: S03C*A (Full Peak Non Vented) / S03E*F (Full Peak Vented) / S17*A (Reduced Peak Non Vented)

*Insert color of hard hat (i.e. W for White)

STANDARD



APPROVED TO:

[EN 397] 1000V a.c (unvented shell only) | MM | -30°C

[ANSI/ISEA] Z89.1-2014 Type 1 Class E (unvented shell only)

CONCEPT FORESTRY KIT

Providing high safety with low weight - reassuring strength with feel-good comfort. Expertly customised with our forestry mesh visor and ear defenders.

ATTRIBUTES

- Orange Vented Concept hard hat, Black Mesh Visor and Orange Scala X SNR 25db Ear Defenders
- High performance ABS shell allows for optimal strength to weight ratio
- Internal card holder for identification or medical information



STANDARD



OPTIONAL



HARD HAT APPROVED TO

[EN 397]
[EN 50365]
[AS/NZS 1801:] Class C

EAR DEFENDER APPROVED TO

[EN 352-3]

FORESTRY VISOR APPROVED TO

[EN 1731] S

CORPORATE BADGING

Our four-step corporate badging process makes branding safety hard hats and bump caps easy. We are proud that we can dispatch orders of under 500 units within 5 days for hard hats and 10 days for Bump Caps. Corporate badging is one of the most important elements your company requires.

ATTRIBUTES

- No set up cost for new logo's
- One of the lowest minimum HeightMaster, 40 for all other hard hats and caps
- Spectrum has the widest front print area of any safety hard hat
- Pad print on the front, rear and sides of hard hats
- Embroider or transfer printing on the front of caps

END USER BENEFITS

- Promote your company
- Help your employees stand out on site
- Easily identify your worker's task or position
- Use the hard hat to promote safety messages
- Ensures PPE is provided by the company

FRONT



BACK



SIDES



HARD HAT PROTECTION STANDARDS

EN 397 Hard hats for general use in construction and industry to provide protection to the wearer against falling objects and consequential brain injury and/or skull fracture.

ANSI Z89.1 (Type 1) Minimum performance requirements for protective hard hats that reduce the forces of impact and penetration and that may provide protection from electric shock. Type 1 hard hats are intended to reduce the force of impact resulting from a blow only to the top of the head.



MANDATORY TESTS	Shock Absorption		EN 397	ANSI Z89.1
	Drop height		1 metre	1.5 metre (freefall)
	Maximum force allowed		5 kiloNewtons	3.78 kiloNewtons (average) 4.45 kiloNewtons (individual)
	Energy Transmitted during test		49 joules	53 joules
	Striker face and weight		50mm radius hemispherical, 5kg	95mm diameter, radius 48 mm, 3.6kg
	Test Conditions		-10°C, +50°C, Wet at +20°C,	-18°C, +49°C, Wet at +23°C
	Penetration Resistance		EN 397	ANSI Z89.1
	Drop height		1 metre on area 50mm radius	2.5 metres on area 38mm radius on crown
	Energy Transmitted during test		29 joules	24.5 joules
	Striker Mass		3kg	1kg
Test Conditions		-10°C, +50°C, Wet at +20°C, plus UV	-18°C, +49°C, Wet at +23°C	

BSI Kitemark

By purchasing a product accredited with the BSI Kitemark, the user can be confident that the product continually meets the performance characteristics of the initial sample submitted for type approval.



BSI independently audit test the product on a regular basis and in order for us to retain the Kitemark, we must routinely batch test products in our own laboratory and have process control procedures in place within our production.



OPTIONAL TESTS	Lateral Deformation (LD)		EN 397 only
	Provides a level of protection against lateral compression, indicating improved side strength of hard hat. Test Method: A pressure of 43kg is applied on both sides of the shell for 5 minutes and then the amount of hard hat deformation is measured.		
	Low Temperature Performance		
	Hard hat will still provide protection when worn at or above this temperature. Test Method: The mandatory shock absorption and penetration resistance tests are repeated at stated low temperatures.		-20°C/-30°C - EN 397 -30°C - ANSI Z89.1
	Electrical Insulation		
	Test indicates protection from electrical shock. EN Test Method: The shell is immersed for 24 hours in 3 grams per litre of salt water. A current is passed through electrodes which are positioned both inside and outside the hard hat. The maximum electrical leakage allowed is 1.2mA for 30 secs at 1200V a.c.		440V a.c. - EN 397, 2200V a.c. - Class G ANSI Z89.1, 20,000V a.c. - Class E ANSI Z89.1
	Molten Metal (MM)		
	The test ensures that there is no penetration of molten metal splash, indicating a quality, heat resistant shell. Test Method: Test procedure is 150g of molten iron dropped onto a 50mm radius area on hard hat crown.		EN 397 only
	Extra Features outside the scope of EN 397		
	Purpose and test method is as per the relevant EN 397 options detailed above, but performance indicates a higher level of protection.		-40°C and 1000V a.c.
Resistant to Flame (F)			
Test ensures hard hat does not ignite or burn after a flame is applied for a brief period of time. EN 397 Test Method: The end of the flame is applied to the outside of the cap, 50-100mm from the crown for 10 seconds.		Mandatory test for EN 397 (flame resistant test) and ANSI Z89.1 (flammability test)	

EXCEEDING STANDARDS

We believe that the standards that govern head protection (EN 397), written in 1995, and adopted from ISO3873 in 1977, could do more to meet the protection requirements for the modern working environment (available materials and methods have changed significantly).

We encourage the end customers we work with to consider their specifications beyond the EN 397 standard written so many years ago. We also believe that facilities and health and safety executives should consider adding the following to their purchase specification:

BSIF Registered Safety Supplier Scheme (RSSS): Every RSSS member is independently audited every single year. Products are subjected to random testing for performance and compliance to claimed standards. RSSS members commit to their customer-facing employees being trained in the Safe Supply Accreditation program to ensure competence in PPE and Health & Safety. Membership of the scheme involves more than testing and training. It includes a shared commitment to advocating the scheme's benefits to other health and safety providers.

Kitemark: The Kitemark is an unrivaled stamp of quality. From its creation in 1903, it is now recognized globally as a business super brand recognized globally as a business super brand – whose independent testing has become the benchmark in product quality and compliance. The Kitemark, in our view, is so valuable for two reasons. Firstly, unlike the CE mark which certifies businesses to minimum legal requirements, the Kitemark sets standards of compliance that go far beyond the legal minimum. We believe in always striving for what is best, not what is simply permitted. And we believe the Kitemark is a fitting testament to this ethos. Secondly, much of the Kitemark's rigor is rooted in its insistence on regular testing and re-testing businesses against its exacting standards. And in its constant monitoring and review of those standards to ensure they remain resolutely fit for the world they operate in. So, the Kitemark isn't proof that a business has 'passed a test' – it's proof that a business is constantly maintaining the highest of standards – a feat that demonstrates a deeper commitment to going above and beyond. Our job is to keep people safe. So, our view will always remain black and white. There can be no "that'll do" when lives are at risk. Acceptable isn't ever acceptable when we know we can push for better. And meeting standards will never be enough when we could be setting standards.

Chinstraps: At Centurion, we believe that chinstraps should be mandatory and that chinstraps help improve site safety. This is paramount when working in an environment where a hard hat could fall on someone below, this is particularly important and often referred to "working at height". If a wearer's hard hat isn't securely fitted, upon impact the protection levels will be comprised. If a wearer were to be struck by an object there is a chance that the impact could knock the hard hat off their head, this would not happen if you were wearing a chinstrap and would provide protection against any subsequent impacts.

COMPATIBILITY GUIDE

At Centurion, our mission is to provide compatible, comfortable and stylish head protection systems.

PPE compatibility is important as compatible systems have many benefits:

- A system from the same manufacturer is designed and tested to work together
- Fit and therefore comfort is optimized
- Wearer compliance and productivity is improved as wearers are satisfied with their PPE system



FACE PROTECTION STANDARDS AND OPTIONS

Standard	Option	Type	Description
EN 166:2002	1	OPTICAL CLASS	Highest quality level, required for continuous usage
EN 166:2002	A	MECHANICAL STRENGTH / IMPACT RESISTANCE	High speed particles with high energy impact (190m/s)
	B		High speed particles with medium energy impact (120m/s)
	F		High speed particles with low energy impact (45m/s)
	T		Additional resistance to high speed particles at extreme temperature (-5°C-55°C)
ANSI/ISEA Z87.1:2010 / 2015	Z87+		American National Standard for Eye and Face Protection. Impact Rated (91m/s)

Application Based	Option	Type	Description
EN 166:2002	9	High / radiant heat environments:	Non adherence of molten metal and resistance to penetration of hot solids
EN 171:2002	4-5		Protection against InfraRed radiation. Shade 5 filter. Typical application in terms of mean temperature sources up to 1390°C
EN 166:2002	3	Chemical and splash environments	Protection against liquid droplets and splashes
EN 169:2002	3	Welding and braze welding of heavy metals	Filters for personal eye protection used in welding and similar operations. Scale number 3.
EN 166:2002	5		Welding with emissive fluxes (notably light allows) Oxygen Cutting. Scale number 5.
EN 175:1997			Equipment for eye and face protection during welding and allied processes.
EN 170:2002	2C-1,2		For use with sources which emit predominantly Ultra Violet Radiation at wave lengths shorter than 313nm and when glare is not an important factor. This covers the UVC and UVB bands. With enhanced color recognition.
	2-1,2		As 2C-1,2 above - however color recognition may be impaired.
EN 1731:2016	S	Forestry	Mesh type eye and face protectors for industrial and non industrial use against mechanical hazards. S marking for Robustness.
EN 166:2002	8	Arc flash risks	Protection against Short Circuit Electric Arc. No test is required; screen needs to meet minimal requirements of material type Polycarbonate, thickness - 1.4 mm minimum, scale number - 2-1,2 or 2C-1,2, height - 150mm minimum and Visibility. Requirements for the testing and certification of face shields for electrical works - 'Arc-in-a-box' test.
GS-ET-29 Revision 1 (2010-12)	Class 1 or 2		Arc Protection Classes: Class 1 - 135kJ/m2 incident energy, 3.2 cal/cm2 (4kA), Class 2 - 423kJ/m2 incident energy, 10.1 cal/cm2 (7kA) Visible Light Transmittance (VLT) Classes: Class 0 - ≥ 75%, Class 1 - 50% ≤ VLT ≤ 75%, Class 2 - VLT < 50%

Anti-Static Risks

Specific Centurion Accessories with the Nexus hard hat are certified by our Notified Body, BSI, to the electrostatic test, which assesses and confirms the electrostatic chargeability, according to IEC 60079-32-2:2015.

This provides the confidence that these products cannot cause an electrostatic charge and thereby not be the cause of an explosive spark or ignition.

Hard Hat and Accessories	Hazardous area (Zone as per Directive 999/92/EC)	Group (as per DIN EN 60079-0)
Nexus HeightMaster in combination Nexus eyeshield clear or smoke gray and/or Nexus high intensity reflective stickers	Zone 0 Zone 1 & 2 Zone 20, 21 & 22	IIA and IIB IIA, IIB and IIC IIIA, IIIB and IIIC
Nexus HeightMaster in combination with Scala X ear defenders	Zone 0 Zone 1 & 2 Zone 20,21 & 22	IIA IIA and IIB IIIA, IIIB and IIIC
Nexus HeightMaster in combination with Scala XI ear defender and/or Contour visor carrier and Countour polycarbonate multi purpose screen	Zone 1 & 2 Zone 20, 21 & 22	IIA IIIA, IIIB and IIIC

SYSTEM ACCESSORIES PRODUCT SELECTOR

		Automotive	Construction	Distribution	Foundry	Highways	Manufacturing	Petro-Chemical	Rail	Utilities
Hearing	Risk level	Low	Medium - High	Minimal	Low - Medium	Medium - High	Minimal - High	Medium - High	Medium - High	Minimal - High
	Potential risk	Air Tools	Machinery/ Power Tools	Accessing production area	Noisy environment	Power tools / heavy machinery /traffic noise	Background noise - noisy environment	Noisy environment	Power tools ie chainsaws, strimmers / Machinery	Sewage works / machinery (ie Excavating cables)
	Recommended products	Hard hat mounted ear defenders - S71CE/S72CE								
Eye	Risk level	Minimal - Medium	Medium - High	Minimal	Not Applicable	Medium - High	Minimal - Medium	Medium - High	Low - Medium	Low - Medium
	Potential risk	Falling debris under vehicle	Power tools	Handling chemicals	-	Power tools / machinery	Machinery	Machinery / working near	Power tools / machinery	Debris / Power tools, machinery
	Recommended products	Hard hat integrated eyewear Spectrum - S576, Vision Plus - S577,			-	Hard hat integrated eyewear Spectrum - S576, Vision Plus - S577,				
Face	Risk level	Minimal	Low - High	Minimal	High	Low - High	Minimal - Medium	Low - Medium	Minimal - High	Minimal (High)
	Potential risk	Grinding/cutting	Grinding/cutting	Handling chemicals	Molten metal splash / radiant heat / Infrared / UV	Power tools / machinery / cabling	Machinery	Close proximity / working with chemicals	Forestry, Arc flash	Arc Flash
	Recommended products	Browguard mounted face shield	Hard hat mounted face shield	Browguard mounted face shield	Hard hat mounted high temperature face protection	Hard hat mounted face protection - general purpose or arc flash	Browguard or hard hat mounted face shield	Hard hat mounted face shield	Hard hat mounted face protection - forestry, polycarbonate arc flash face shields	Hard hat mounted face protection - arc flash
Seasonal	Risk level	Low - Medium	Medium-High	Low - Medium	not applicable	High	Minimal	High	High	Minimal - High
	Potential risk	Partly External environment (tyre fitters) - External environment (mobile fitters)	Working internally or externally	Entering a cold storage area or working externally	-	External environment	Cold Storage	External environment	External environment	External environment
	Recommended products	Warming Systems for the winter months/colder environments and Kalis Dry Cooling and Sun Capes for the Summer months								



CONTOUR CARRIER

GENERAL PURPOSE CONTOUR CARRIER ATTRIBUTES

- Low profile, pivoting system follows hard hat contour
- Unique TPE rubber collar is fitted as standard to help block falling debris
- Multi pivot functionality for maximum versatility
- Contour clips for fitting to Nexus and Concept hard hats

APPROVED TO

[EN 166] [ANSI/ISEA] Z87.1+

Product Codes: S55 Contour Face Shield Carrier



CONTOUR XI

MULTI PURPOSE MOLDED FACE SHIELD

Designed to protect against EN 166 medium energy impact and Class 1 Arc Flash risks posed by electrical faults.

ATTRIBUTES

- Polycarbonate molded screen for both impact protection and Arc protection
- Anti-Fog and Anti scratch coating
- Integrated Chinguard

STANDARD



APPROVED TO

[EN 166] 1 | B | T | 8 | 9 | 3 [EN 170] 2C-1,2
[ANSI/ISEA] Z87.1+ [Arc Class 1 GS-ET-29]

Product Codes: S810 Contour XI Multi Purpose Face Shield / S25WCONTAEA Kit consisting of Nexus Hardhat with Wheel Ratchet and Multi Purpose / Arc Class 1 Screen fitted to Contour Carrier



CONTOUR X

GENERAL PURPOSE MOLDED FACE SHIELD

ATTRIBUTES

- Polycarbonate molded screen for medium energy impact protection

APPROVED TO

[EN 166] 1 | B | T | 9 | 3
[EN 170] 2C-1,2
[ANSI/ISEA] Z87.1+

Product Codes: S800 Contour X General Purpose Face Shield

CLASSIC FACE PROTECTION



CLASSIC FACE SHIELDS

General Purpose face shields available in polycarbonate for medium energy impact protection, acetate for chemical resistance or acetate green for welding.

- All face shields can be used with both the Classic Carrier and the Classic headband mounted Browguard

Product Codes: General Purpose Face Shields: S580 - Polycarbonate 150mm / S590 - Polycarbonate 210mm / S591 - Acetate Clear 210mm / S592 - Acetate Antifog 210mm Face Shields for Chinguard: S910 - Polycarbonate / S911 - Acetate Clear / S912 - Acetate Antifog



CLASSIC CARRIER

A carrier for fitting hard hat mounted face shields. For fitting Classic face shields to all Centurion hard hats.

Product Codes: S54CE Carrier / S54TCE Carrier -fitted with thumbscrews



CLASSIC BROWGUARD

Classic Browguard for fitting classic face shields when head protection is not required.

Product Code: S89 Browguard



CLASSIC CHINGUARD

Chinguard for fitting to Chinguard Face Shields for additional coverage.

Product Code: S91C Chinguard



FORESTRY VISOR

In the unique forestry environment, our visor offers a high degree of face protection without restricting the vision of the wearer. The visor is pre-mounted onto a Centurion carrier for total protection against falling debris and for stability during use.

- Forestry Kit available

Product Codes: S59CE - Forestry Visor / S25CCOF - Forestry Kit with Concept Orange Vented Hard hat and Scala X Ear Defenders

HIGH HEAT FACE PROTECTION & ACCESSORIES



NEW HIGH TEMPERATURE PREMIUM FACE SHIELD CARRIER

In conjunction with the high temperature classic face shields, a complete high temperature face system designed to supply specialist protection in areas at risk of radiant heat. Suitable for use on S22 hard hats. Made from steel aluminium with black anodized coating.

Product Codes: S58 - Premium Carrier for S22 hard hat



HIGH TEMPERATURE CLASSIC FACE SHIELD CARRIER

In conjunction with the high temperature classic face shields, a complete screen and carrier face system designed to supply specialist protection in areas at risk of radiant heat. Suitable for used on S22 hard hats.

Product Codes: S57CE S22 hard hat / S57TCE - carrier fitted with thumbscrews



2 POINT EN 397 LEATHER CHINSTRAP

Specifically designed to complement the High Heat hard hat, a leather chin strap to cope with high temperature environments.

Product Code: S30L - S30V - S22 hard hat



HIGH TEMPERATURE CLASSIC FACE SHIELDS

High Temperature face shields available for high temperature applications.

- To be used with Premium or Classic High Temperature Face Shield Carriers

Product Codes: High Temperature face shields: S598 - Triacetate Clear / S760 - Gold Polycarbonate



HIGH TEMPERATURE ALUMINIZED NECK CAPE

Complementing the S22 hard hat, this aluminized Neck Cape ensures maximum heat dissipation from the wearer.

Product Code: S36

HEARING PROTECTION & VISIBILITY



SCALA XI EAR MUFFS

Designed and approved to fit all Centurion hard hats. Excellent noise protection, especially for high frequencies. SNR 30 dB. Available to fit Euro, Connect or Combi Slot hard hats

Product Codes: S72CE



SCALA X EAR MUFFS

A hard hat mounted ear muff system to complement all Centurion safety hard hats. Suitable for most general requirements. SNR 25 dB.

- Available to fit Euro, Connect or Combi slot hard hats Combi slot hard hats

Product Codes: S71CE



HIGH INTENSITY REFLECTIVE STICKERS

Making the safe, safer. A set of high intensity, highly reflective accessory stickers, bespoke for the Centurion range of safety hard hats. Helps to increase visibility of workers in low light level environments meeting material specification of EN 12899-1 Ra2.

- Provides coverage on front, side, rear and top of the hard hat
- Sticker sets for the Nexus hard hat - available in 6 colors
- Sticker set for Concept, Vision Plus and Spectrum hard hats in Silver

Product Codes: Nexus: S30*NHIRS Spectrum, Vision Plus and Concept: S30HIRS (* Insert color of stickers)

COLOR VARIATIONS



CLASSIC FACE PROTECTION

CLASSIC FACE SHIELDS

General Purpose face shields available in polycarbonate for medium energy impact protection, acetate for chemical resistance or acetate green for welding.

- All face shields can be used with both the Classic Carrier and the Classic headband mounted Browguard

Product Codes: General Purpose Face Shields:
S580 - Polycarbonate 150mm / S590 - Polycarbonate 210mm / S591 - Acetate Clear 210mm / S592 - Acetate Antifog 210mm Face Shields for Chinguard: S910 - Polycarbonate / S911 - Acetate Clear / S912 - Acetate Antifog



CLASSIC CARRIER

A carrier for fitting hard hat mounted face shields. For fitting Classic face shields to all Centurion hard hats.

Product Codes: S54CE Carrier / S54TCE Carrier -fitted with thumbscrews



CLASSIC BROWGUARD

Classic Browguard for fitting classic face shields when head protection is not required.

Product Code: S89 Browguard



CLASSIC CHINGUARD

Chinguard for fitting to Chinguard Face Shields for additional coverage.

Product Code: S91C Chinguard



FORESTRY VISOR

In the unique forestry environment, our visor offers a high degree of face protection without restricting the vision of the wearer. The visor is pre-mounted onto a Centurion carrier for total protection against falling debris and for stability during use.

- Forestry Kit available

Product Codes: S59CE - Forestry Visor / S25CCOF - Forestry Kit with Concept Orange Vented Hard hat and Scala X Ear Defenders



CHINSTRAPS & MOUNTING

Global data and our own analysis highlighted changes in the market with chinstrap usage becoming more specified in growing regions such as Scandinavia and Asia. Working at height is also a rapidly growing market segment, and so too are the injuries that result from this environment. We strongly believe chinstraps should be fitted on industrial safety hard hats – whether on or above ground. They provide added hard hat retention / security and help workers shaping our world deliver their best.



4 POINT EN 12492 CHINSTRAP

Designed specifically for the demanding Nexus HeightMaster hard hat, a replacement chinstrap to ensure EN 12492 compliance.

- Gray in color to differentiate workers on site from EN 397 chinstraps

Product Code: S30NY



2 POINT EN 397 ELASTICATED CHINSTRAP

2 point elasticated chinstrap to complement the Centurion range of hard hats, fully approved to EN 397. Fitted with chin cup for extra comfort

- Black in color to identify chinstrap as an EN 397 chinstrap

Product Code: S30E



4 POINT EN 397 SECURE PLUS CHINSTRAP

Ergonomically designed chinstrap conforming to EN 397. Fitted to all SecurePlus hard hat variants.

- Black in color to differentiate workers on site from EN 12492 chinstraps

Product Code: S30LY



HARD HAT ACCESSORY CLIPS - CONNECT, EURO AND CONTOUR

Accessory clips to allow the fitment of hearing and face protection products.

- Connect and Euro clips can be used on Centurion hard hats with Combi slots (1125, Concept and Spectrums)
- Connect clip can be used on S22 and 1125 Reduced Peak hard hats
- Euro clips can be used on Nexus and Vision Plus hard hats
- Contour clips can be used on Nexus and Concept hard hats

Product Codes: Connect Accessory Clips S570 / Euro Accessory Clips S565 / Contour Accessory Clips S585

COOLING SYSTEMS

KALIS DRY COOLING ACCESSORIES SUN CAPES

The NEW patent-pending Dry Cooling technology is designed to provide enhanced cooling comfort for the wearer. The Kalis dry cooling system is shown to keep the wearer 15°C/27°F cooler than ambient temperature and completely dry. It keeps the wearer cooler for up to 4 times longer compared to wet cooling products.

ATTRIBUTES

- Keeps the wearer 15°C (27°F) cooler than the ambient temperature
- Up to 5 times longer in use life*
- 100% dry
- Anti-bacterial and machine washable
- Utilizes technology found in the high end sports industry

STANDARD



APPROVED TO

[EN 397] [ANSI/ISEA] [CSA/CAN] Nexus Core and Secure Plus with ratchet only
[AS/NZS 1801:] Nexus Core and Secure Plus with ratchet only



SUN CAPES

Lightweight Sun Cape that protects against UltraViolet UPF 50+, blocks 98% of UX radiation. Using fabric developed specifically to keep the wearer dry, cool and comfortable wearer dry, cool and comfortable.

ATTRIBUTES

- Available in Bright Yellow or Orange
- Fits to all Centurion hard hats

Product Codes: S51HVY Sun Cape Bright Yellow / S51HVO Sun Cape Bright Orange

WARMING SYSTEMS

At Centurion, we strive to design and offer solutions that ensure suitability with various tasks and potential hazards. Intuitive and compactible solutions will greatly enhance the user experience and, in turn, drive compliance. Our seasonal accessories have been designed to provide increased comfort for workers in the harshest conditions. A specialized version is available to provide flame retardant and anti-static.

NEW HARD HAT AND BUMP CAP WINTER BEANIE



The snug fitting Winter Beanie fits securely on the head under a hard hat or bump cap to provide warmth and comfort during winter months or in cold storage environments.

- Tested in all Centurion hard hats and bump cap systems
- The water resistant coating provides protection from the rain
Product Codes: S50HCB

Product Codes: S50HCB

UNIVERSAL FLEECE HARD HAT LINER



The Centurion Fleece hard hat liner fits between the Centurion cradle and hard hat shell to give an excellent, secure fit of the hard hat on your head.

- Fits between cradle and hard hat shell for full integration

Product Codes: S50UFL Universal Fleece Hard hat Liner / S50UFLSP Specialized Fleece Hard Hat liner (flame resistant, anti-static and arc protective fabric) protective fabric)

FROST CAPE



- Frost Cape: water resistant outer with fleece inner and bright orange or yellow color with reflective rear strip. Zip top fastening to be fitted to fleece hard hat liner
- Frost Cape with ear defender compatibility: All as per existing Frost Cape, but with integrated Fleece Hard hat Liner and facility to use hard hat-mounted Ear Defenders or for improved hearing due to mesh ear flaps

Product Codes: S50HVFYFC Frost Cape bright Yellow / S50HVOFC Frost Cape bright Orange / S50HVEDFC Frost Cape bright Yellow with Ear Defender Compatibility / S50HVOEDFC Frost Cape bright Orange with Ear Defender Compatibility / S50NBFCSP Specialized Frost

FACE WARMER



Fits to Frost Cape for total head and face warmth.

Product Code: S50FW: Face Warmer

NEW AIRPRO SECURE PLUS BUMP CAP

Our flagship baseball bump cap designed to provide unrivaled head retention and wearer comfort. The first ever baseball bump cap to incorporate a ratchet adjustment system.

ATTRIBUTES

- Innovative new ratchet adjustment
- Crown ventilation for increased cooling
- Treated with Dupont Teflon for easy cleaning and improved hygiene
- Liner manufactured from ABS for optimal strength
- Peak options available: Full (50mm), Reduced (30mm)
- Side Scoops available (Minimum order quantity 500 units)



S38NBR **S38KR** **S38HVYR** **S38HVOR**

Product Codes: S38*R (Standard Peak, 50mm) / S38*RPR (Reduced Peak, 30mm)

*Insert color code of cap(i.e. NB for Navy Blue) / ** Additional colors, side scoops and peak lengths are available subject to minimum order quantities. Please contact sales for more information.

STANDARD



OPTIONAL



APPROVED TO

[EN 812] -40°C

AIRPRO BUMP CAP

Our bump cap has been designed for maximum breathability, maximum comfort and minimum weight, with approval to EN 812.

ATTRIBUTES

- Designed to provide maximum breathability for increased coolness
- One of the lightest Bump caps around at only 135g
- Treated with Dupont® Teflon® fabric protector, enabling small spills and grime to be easily wiped away
- Peak options available: Full (50mm), Reduced (30mm), Micro (15mm)
- Side Scoops available (Minimum order quantity 500 units)



STANDARD



OPTIONAL



APPROVED TO

[EN 812] -40°C



S38NB S38RB S38R S38K S38E S38G S38HVY S38HVO

Product Codes: S38* (Standard Peak, 50mm) / S38*RP (Reduced Peak, 30mm) / S38NBSP (Micro Peak - Navy Blue) / S38NBRPSS (Reduced Peak with Side Scoops for Ear Defender Compatibility - Navy Blue)

* Insert color code of cap (i.e. NB for Navy Blue) / ** Additional colors, side scoops and peak lengths are available subject to minimum order quantities. Please contact sales for more information.

COOL CAP BUMP CAP

Our fashion-led CoolCap combines high ventilation, high flexibility and reassuring protection against minor bumps and scraps to the head.

ATTRIBUTES

- Cap is fitted over an ABS liner to provide lightweight head protection
- Corporate badging via embroidery or transfer print

STANDARD



OPTIONAL



APPROVED TO

[EN 812] -40°C



S28NB S28RB S28R S28K S28E S28G S28HVY S28HVO

Product Codes: S28* (Standard Peak, 50mm) / S28NBRP (Reduced Peak, 30mm - Navy Blue only)

* Insert color code of (i.e. NB for Navy Blue)



CAP 2000 BUMP CAP

Our robust CAP 2000 offers reassuring protection against minor bumps and scrapes to the head.

ATTRIBUTES

- Traditional panel baseball bump cap with ventilation mesh grills
- Complete with full 360° ABS liner

STANDARD



OPTIONAL



S18NB S18K

Product Code: S18* (Standard Peak, 60mm)

* Insert color code of cap(i.e. NB for Navy Blue)

CAP PROTECTION STANDARDS

EN812 Bump Caps provide protection to the wearer against the effects of striking head/scalp against hard or sharp stationary objects

MANDATORY TESTS	Shock Absorption		EN 812
	Drop height	0.25 metre	
	Maximum force allowed	15 kiloNewtons	
	Energy Transmitted during test	12.5 joules	
	Strike face and weight	100mm diameter flat, 5kg	
	Test Conditions	-10° C, +50°C, water immersion and artificial ageing	
	Penetration Resistance		EN 812
	Drop height	0.5 metre	
	Energy Transmitted during test	2.5 joules	
	Striker Mass	0.5kg	
	Test Conditions	-10° C, +50°C, water immersion and artificial ageing	

BSI Kitemark

By purchasing a product accredited with the BSI Kitemark, the user can be confident that the product continually meets the performance characteristics of the initial sample submitted for type approval.



BSI independently audit test the product on a regular basis and in order for us to retain the Kitemark, we must routinely batch test products in our own laboratory and have process control procedures in place within our production.

Centurion also holds BS EN ISO 9001:2015, a quality management standard, covering the design management standard, development and manufacture of our products, having held ISO 9001 since 1992.

OPTIONAL TESTS	Low Temperature Performance		
	Hard hat will still provide protection when worn at or above this temperature. Test Method: The mandatory shock absorption and penetration resistance tests are repeated at stated low temperatures.		-40°C - EN 812
	Resistance to Flame (F)		
Test ensures cap does not ignite or burn after a flame is applied for a brief period of time. EN397 Test Method: The end of the flame is applied to the outside of the cap, 50-100mm from the crown for 10 seconds.		EN 812 only	

HARD HAT LOGO PRINTING

Product	Print Area on Hard hat	Max Print Size (1)		Min. Order Qty (2)	Max Colors per position (3)
		Width	Height		
Spectrum	Front	95mm	45mm	40	6
	Sides	100mm	20mm		
	Back	100mm	20mm		
Vision Plus	Front	70mm	10mm or 50mm or 60mm	40	6
	Back	60mm	25mm or 30mm		
Nexus	Front	75mm	40mm	40	6
Nexus Heightmaster	Sides	50mm	40mm	10 Nexus HM only	2
	Back	50mm	50mm		
Concept	Front	85mm	50mm or 60mm	40	6
	Sides	25mm	80mm		
	Back	100mm	20mm or 25mm		
1125 Classic	Front	50mm	40mm or 45mm	40	5 (in total)
	Sides or Back	45mm	100mm		

BUMP CAP LOGO PRINTING & EMBROIDERY

Product	Print Area on Cap Embroidery Transfer Printing (1)	Max Print Size (2)		Min. Order Qty (3)	Max Colors per position
		Width	Height		
Cap2000 and CoolCap	Front, others on request	100mm	55mm	40	5
AirPro SecurePlus AirPro	Front Sides - transfer printing only	100mm	55mm	40	5
		100mm	55mm		
		100mm	25mm or 50mm		
		40mm	50mm		

TRAINING IS AN ART, NOT JUST AN EDUCATION

The investment in training, through both provision and participation, is the responsibility of all in the PPE chain, from the manufacturer, through distribution to the wearer.

At Centurion, we believe that microlearning will really gain momentum in 2019. This non-traditional form of education allows employees to participate in training sessions that last less than sixty minutes, from a device of their choice. It offers many benefits, including making content more digestible, relevant and accessible. People are more likely to benefit from training when it's not too long and intimidating.

We are starting to see enhanced levels of innovation in head protection – new materials, more demanding standards (like EN 12492, EN 14052), increased numbers of patented features and accessories. This will not alone eliminate the risks and accidents if people do not get enhanced levels of training to understand the issues and the importance of life-saving protection and why exceeding the standards can save further lives. As experts in above-the-neck safety, we believe in making safe, safer through both education and product design.

- What are chinstraps there for and why, given their advantages, are they not far more prevalent?
- Should the hard hat be vented or unvented?
- What can I do in certain weather environments to make sure the head protection still functions?
- What is the Kitemark?
- What are hard hats made of and are all materials as strong?
- How do liners improve impact protection and why does that matter?
- How do I check that the hard hat is still fit for purpose?
- What should people consider regarding the compatibility of above-the-neck protection?
- What is available for high heat environments?
- How do I care for my safety hard hat?

A key challenge for manufacturers is to provide the correct levels of training and education to support the varying applications, standards and product ranges. Training needs to increase in scale and depth across our industry. What better place to focus on than head protection – a core symbol of PPE and the ultimate lifesaving equipment? Sub-standard or ill-specified products in this area will result in the most serious injury or even death. We need to do our part to increase the level of understanding for both company safety officers and wearers alike, to drive the correct use of compatible products, through a better understanding of the “what” is available and the “why” it is suitable. We are proud to be a pioneering PPE manufacturer that offers bespoke training aimed at educating the market and not selling products. Our training modules deliver a clear understanding of protection in relation to risk utilising over 100 years of expertise in above-the-neck protection.

ICON KEY

As you may have noticed, we have created a dynamic new look for the Centurion brand. This goes far beyond “just a logo change”. Below, we have created a suite of icons to help simplify the navigation of our collection and enhance your experience.



ABS

Made with virgin ABS polymer, special grades of ABS that we have perfected over 15 years of ABS manufacturing experience.



Chinstrap - 2 Point Mounting Facility

2-point chinstrap mounting facility accessory to complement the Centurion range of hard hats.



Chinstrap - 4 Point Mounting Facility

4-point chinstrap mounting facility providing additional wearer comfort and hard hat stability.



Integrated Eyewear

Eye protection integrated to the hard hat shell. Can provide increased impact protection, greater protection levels and a value proposition.



Reflective Stickers Available

High intensity reflective stickers available for increased visibility in poor lighting conditions.



Fire retardant

A substance that prevents or inhibits the outbreak of fire. Treated so as to be non-flammable.



Vented Hard hat Available

Innovative ventilation system for increased airflow and a cooler hard hat in warmer conditions.



Logo Service

Corporate badging available, pad printing service for hard hats and embroidery or transfer print for caps



Wheel Ratchet Headband

Premium Twist2Fit ratchet headband assembly for a secure fit.



Combi Accessory Slot

Patented Combi accessory slot for attachment of the full range of Euro and Connect accessories.



Euro Accessory Slot

Euro 30mm accessory slot for attachment of the full range of Centurion accessories.



Connect Accessory Slot

Connect accessory slot for attachment of the full range of Connect accessories.



Welding

Suitable for welding applications.



High Temperature

Suitable for high temperature environments.



DryTech Sweatband

New premium DryTech sweatband provides up to 40% faster drying and absorbs 4x more moisture when compared to Centurion's previous Hydro-flock sweatband.



BSI Kitemark

BSI Kitemark approved. The Kitemark is an unrivaled stamp of quality.



Made in UK

Made in the Centurion manufacturing facility in Thetford, Norfolk, UK.



Badge Holder Available

Fitted to accessory.



Anti Static

Approved to the Anti static / explosive atmosphere standard (IEC 600079-32).



Working At Height

Suitable for working at height applications.



Forestry

Suitable for forestry applications.



First to Market

Centurion was first to bring the product/concept to market.



Arc Class 1

Arc Class 1 Face Protection.

AWARD WINNING EXPERTISE



WINNER
BEST BRAND BUILDING CAMPAIGN – SME



AIRMATIC founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The **MATERIALS MANAGEMENT GROUP** provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The **SERVICE GROUP** provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company.

The **TOOL GROUP** provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications.

Our Customers tell us that by choosing **AIRMATIC to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.**

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