

# GET AHEAD OF HAZARDS

Our new head safety solution features  
an innovative suspension technology  
and advanced impact protection.

Fibre-Metal Type II  
Climbing Style Safety Helmet



**FIBRE-METAL<sup>®</sup>**  
BY **PIP**

# HEAD PROTECTION THE WAY YOU NEED IT

**Your safety is our top priority. That is why we build personal protective solutions to act as your main line of defense against various potential hazards on the job while maintaining high levels of wearer comfort and usability throughout extended lengths of time.**

That is the case with our newest head safety product range. Combining innovative safety technology and advanced design features that help enhance wearer comfort, we have created the new Fibre-Metal Type II, Class E climbing-style helmet.

Delivering enhanced protection, the helmet incorporates an innovative suspension technology which helps to evenly distribute impact-generated force throughout the shell. Plus, to help enhance wearer protection, comfort and ease of use, the helmet is compatible with a wide range of safety accessories.

Overall, the Fibre-Metal Type II Type II, Class E climbing-style safety helmet aims to provide workers in various industrial environments with the following benefits:



## **A PROTECTIVE INNOVATION**

This is achieved through two key technologies.

The first technology incorporates liquid crystal polymer (LCP) yarn into the six strap, eight-point suspension system. LCP yarns help disperse force transferred from the shell to the user.

The second technology leverages non-Newtonian foam in combination with a traditional EPS foam liner. In case of a significant impact, the molecules in this proprietary material bond together to form a firm surface which provides an optimized balance of force mitigation and weight-impact minimization. This protects your head from strong impact.

## **A COMFORTABLE FIT**

The higher the comfort the greater the user efficiency.

That is why worker comfort is at the heart of how we built our new helmet, making it lightweight and easy to use to be a comfortable option for those who wear it for extended lengths of time.

Further helping to elevate wearer comfort are the well-designed headrest and chin strap materials and construction. The one-way moisture transfer and fast-dry chin strap help elevate user comfort in high-temperature work environments, accelerating sweat evaporation for a dry and comfortable feel.

## **A CUSTOMIZABLE HARD HAT**

Because the more protective the solutions the safer the wearer.

To enhance wearer protection against various occupational hazards, the helmet is compatible with a wide range of safety accessories such as a welding helmet, visor, faceshield, UV shade, earmuffs or task light.

Plus, to increase visibility in low-lit environments, the helmet includes durable reflective adhesives that are resistant to rainfall, cold or abrasion. In addition, we made adding a nameplate and company logo possible to make the helmet a customizable piece of protective equipment.



# TOP PROTECTION HEADFIRST

As is the case with all our personal protective equipment, the climbing-style helmet is the result of our commitment to innovation, continuous technological improvement and listening to feedback from our customers.

The new Fibre-Metal climbing-style helmet has unique features, combining research insights, advanced materials, an ergonomic design and safety best practices. These characteristics help protect workers' heads while improving their body position and enhancing productivity.

## MAIN FEATURES AND BENEFITS

- 1. Type II, Class E safety**  
Engineered for comprehensive protection—deflecting both top and side impacts (Type II) and insulating against electrical hazards up to 20,000 volts (Class E), ideal for high-risk environments.
- 2. Suspension technology** –  
Proprietary developed suspension technology which distributes force evenly at impact on shell, helping it to be absorbed in the inner shell and not by the wearer's head
- 3. Helmet inner lining** – The helmet's foam liner is EPS foam embedded with advanced non-Newtonian material for excellent off-the-crown impact-absorbing performance
- 4. Suspension strap** – Knitted suspension strap with liquid crystal polymer (LCP) inlay yarns that provide leading impact-absorbing performance.
- 5. Chin strap** – The one-way moisture transfer wicking and fast-dry chin strap enhances wearer comfort as the hydrophilic and hydrophobic interwoven features accelerate sweat evaporation. Chincup is removable which does not affect the helmet's rating
- 6. New headband ratchet** – Easy adjustment to different head sizes
- 7. Sweatband** – The one-way moisture transfer wicking fabric combined with breathable 3D mesh makes the sweatband super breathable and eases fast sweat evaporation to enhance the cooling effect
- 8. Easy assembly of accessories** such as a welding helmet, faceshield, visor, UV shade, earmuffs or task light
- 9. Reflective adhesives** – for visibility and safety



# COMMITTED TO INNOVATION

We believe that professional head safety equipment should help provide protection and long-lasting comfort as much as it is technologically possible. Below is a list of the global certifications the climbing-style helmet has:

- ANSI Z89.1 – 2014 – North American regulatory standard for industrial hard hats
- CSA Z94.1 2015 – Canadian regulatory standard for industrial hard hats
- CE 2777 – Marking confirmation that the product meets a specified standard in the European Economic Area (EEA)
- EN 397:2012 – European regulatory standard for industrial hard hats
- EN50365 – European regulatory standard for industrial hard hats for electrical insulation
- EN12492 – Passed the tests on protection against side, front and rear impacts (Clauses 4.2.1.2 - front, 4.2.1.3 - lateral, 4.2.1.4 - rear), Penetration (Clause 4.2.2)
- NOM-115-STPS-2009 – Mexican regulatory standard for industrial hard hats

## GENERAL INFORMATION

**Size:** 20 1/2" - 24 3/4" (52-63cm) – Size range of hard hat based on head circumference measurements

**Use:** -22 ° F to 122 ° F (30 ° C to 50 ° C) – Temperature limits for use (lower / upper)

**Available models:** Pictures of the different colors (ventilated and non-ventilated)



## SHORT BRIM CLIMBING STYLE HELMETS





## FULL BRIM CLIMBING STYLE HELMETS

The new Climbing-Style Helmet, with Type II and Class E protection, incorporates a suspension technology that enables it to evenly distribute impact-generated force throughout the shell. Plus, to elevate comfort, improve ease of use and help enhance wearer protection, the helmet is compatible with a wide range of safety accessories.



# GREAT ON THEIR OWN, BETTER TOGETHER.

More protection solutions bring more chances to help safeguard workers from various hazards across a wide range of applications and work environments. That is why we designed the Fibre-Metal Type II Climbing Style Helmet to be compatible with other types of personal protective equipment:

## FIBRE-METAL TYPE II CLIMBING STYLE HARDHAT (CSH) ACCESSORY AND COMBINATION OPTIONS FOR NO BRIM CSH

### Fibre-Metal Welding Helmets

MODEL	MOUNTING SYSTEM	INCLUDED MODELS
Tigerhood Classic	Quick Loks	4906GY or 4990GY
Tigerhood Futura	Redesigned 7 Hole (vs 5 Hole) Speedy Loop	52006BK or 52090BK
These Welding Helmets are compatible with VS110N/VS120N VeriShield Behind the Neck Earmuffs		

### Faceshields and Windows

MODEL	MOUNTING SYSTEM	INCLUDED MODELS
Speedy Loop	4" Deflector Crown w/ Redesigned 7 Hole (vs. 5 Hole) Speedy Loop	F5400 w/ 4178 or 4199 Series Windows or S178, S199 or F01 Mesh Screen
	4" Deflector Dual Crown Faceshield w/ Redesigned 7 Hole (vs. 5 Hole) Speedy Loop	Build It: w/ Grey Chin Guard F5400 + F3400CG + 6750CL Build It: w/ Clear Chin Guard F5400 + F3400CGCL + 6750CL
Quick Loks Used with 6000-H5 Slotted Cap Adapter (sold separately)	Build It: w/ Clear Chin Guard F5400 + F3400CGCL + 6750CL	F4400 + 6000-H5 + 4178 or 4199 Series Windows and S178, S199 or F01 Mesh Screen
	4" Deflector Dual Crown w/ Quick Loks	Build It: w/ Grey Chin Guard F4400 + 6000-H5 + F3400CG + 6750CL Build It: w/ Clear Chin Guard F4400 + 6000-H5 + F3400CGCL + 6750CL
	7" Deflector Crown w/ Quick Loks	F4500 + 6000-H5 + 4178 or 4199 Series Windows and S178, S199 or F01 Mesh Screen
	7" Deflector Dual Crown w/ Quick Loks	Build It: w/ Grey Chin Guard F4500 + 6000-H5 + F3400CG + 6750CL Build It: w/ Clear Chin Guard F4500 + 6000-H5 + F3400CGCL + 6750CL
CP5005	North Slotted Hardhat Faceshield Bracket	w/ 4178 or 4199 Series Windows or S178, S199 or F01 Mesh Screen
S8515	Uvex Bionic Faceshield Hardhat Adapter	w/ S8550, S8555, S8560 or S8565 Windows
These Faceshields are also compatible with VS110N/VS120N VeriShield Behind the Neck Earmuffs		
These Faceshields are also Compatible with VS110H/VS120H and VS110DH/VS120DH VeriShield Cap Mounted Earmuffs		

### Cap-Mounted Earmuffs

MODEL	NRR	SKU
VS100DH (Dielectric)	NRR20	1025148-VS
VS110H	NRR21	1035118-VS
VS110DH (Dielectric)	NRR23	1035200-VS
VS120H	NRR24	1035121-VS
VS120DH (Dielectric)	NRR25	1035201-VS

### Behind-the-Neck Earmuffs

MODEL	NRR	SKU
VS110N	NRR22	1035112-VS
VS120N	NRR25	1035114-VS

### Replaceable Visor

MODEL	DESCRIPTION
CSHACRV	Replaceable Visor
CSHACVA	Visor Adapter

(Note: This Visor is considered Type II Eye Protection which requires Safety Glasses/Goggles to be worn underneath)

### Replaceable UV Sunshade

MODEL	DESCRIPTION
CSHACUV	Replaceable UV Sunshade

(Note: The UV Sunshade is not recommended for use with Earmuffs as the Earmuffs would have to be worn over the Sunshade which may limit the effectiveness of the Earmuffs. Nothing should come in contact between the ears and the sealing surface of the earmuff.)

# FIBRE-METAL TYPE II CLIMBING STYLE HARDHAT ACCESSORY AND COMBINATION OPTIONS FOR FULLBRIM CSH

## Fibre-Metal Welding Helmets

### COMPATIBILITY

#### Please Note:

Fibre-Metal Welding Helmets cannot be attached to the Fullbrim CSH. You cannot attach any brand of Welding Helmet to the Fullbrim CSH.

## Faceshields and Windows

### COMPATIBILITY

These CP5006 and FM-71 are compatible with VS110N/VS120N VeriShield Behind the Neck Earmuffs.

The CP5006 is compatible with 1035211-VS, 1035212-VS, 1035214-VS VeriShield Fullbrim Hat Mounted Earmuffs.



## Faceshields and Windows

MODEL	DESCRIPTION	COMPATIBILITY
CP5006	North Slotted Hardhat Faceshield Bracket	w/ 4178 or 4199 Series Windows or S178, S199 or F01 Mesh Screen
FM71	Fibre-Metal Front Load Faceshield Bracket	w/ 4178 or 4199 Series Windows or S178, S199 or F01 Mesh Screen

## Hat Mounted Earmuffs

MODEL	NRR	SKU
VS110HFB	NRR20	1035211-VS
VS120HFB	NRR22	1035212-VS
VS130HFB	NRR25	1035214-VS

## Behind the Neck Earmuffs

MODEL	NRR	SKU
VS110N	NRR22	1035112-VS
VS120N	NRR25	1035114-VS

## Replaceable UV Shade

MODEL	DESCRIPTION
CSHACUV	Replaceable UV Sunshade

(Note: The UV Sunshade is not recommended for use with Earmuffs as the Earmuffs would have to be worn over the Sunshade which may limit the effectiveness of the Earmuffs. Nothing should come in contact between the ears and the sealing surface of the earmuff.)





# EASY ASSEMBLY OF ACCESSORIES



Full Brim Climbing Style Helmets /  
Verishield™ Full Brim Helmet Earmuff



Full Brim Climbing Style Helmets /  
North Slotted Hardhat Faceshield Bracket



Full Brim Climbing Style Helmets /  
Verishield™ VS120 DH



Short Brim Climbing Style Helmets /  
Tigerhood Futura



Short Brim Climbing Style Helmets /  
Verishield™ VS130 HHV



Short Brim Climbing Style Helmets /  
Quick Lok



Short Brim Climbing Style Helmets /  
Replaceable Suspension and Sweatband



Short Brim Climbing Style Helmets /  
Speedy Loop



Short Brim Climbing Style Helmets /  
Speedy Loop and Welding Helmet

## ORDERING INFORMATION

REF.	DESCRIPTION	VENTING	COLOR
CSH11001	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, White	Vented	White
CSH11009	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Gray	Vented	Gray
CSH11002	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Yellow	Vented	Yellow
CSH11004	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Green	Vented	Green
CSH11071	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Dark blue	Vented	Dark blue
CSH11046	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Orange	Vented	Orange
CSH11015	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Red	Vented	Red
CSH11012	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Brown	Vented	Brown
CSH11011	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Black	Vented	Black
CSH11080	Fibre-Metal Type II Climbing Style Safety Helmet, Vented, Hydrographic	Vented	Carbon fiber/Graphite effect
CSH10001	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, White	Non-vented	White
CSH10009	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Gray	Non-vented	Gray
CSH10002	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Yellow	Non-vented	Yellow
CSH10004	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Green	Non-vented	Green
CSH10071	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Dark blue	Non-vented	Dark blue
CSH10046	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Orange	Non-vented	Orang
CSH10015	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Red	Non-vented	Red
CSH10012	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Brown	Non-vented	Brown
CSH10011	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Black	Non-vented	Black
CSH10080	Fibre-Metal Type II Climbing Style Safety Helmet, Non-Vented, Hydrographic	Non-vented	Carbon fiber/Graphite effect
CSH13001	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, White	Vented	White
CSH13009	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Gray	Vented	Gray
CSH13002	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Yellow	Vented	Yellow
CSH13004	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Green	Vented	Green
CSH13071	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Dark Blue	Vented	Dark blue
CSH13046	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Orange	Vented	Orange
CSH13015	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Red	Vented	Red
CSH13012	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Brown	Vented	Brown
CSH13011	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Black	Vented	Black
CSH13080	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Vented, Hydrographic	Vented	Carbon fiber/Graphite effect
CSH12001	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, White	Non-vented	White
CSH12009	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Gray	Non-vented	Gray
CSH12002	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Yellow	Non-vented	Yellow
CSH12004	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Green	Non-vented	Green
CSH12071	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Dark Blue	Non-vented	Dark blue
CSH12046	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Orange	Non-vented	Orange
CSH12015	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Red	Non-vented	Red
CSH12012	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Brown	Non-vented	Brown
CSH12011	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Black	Non-vented	Black
CSH12080	Fibre Metal Type II Climbing Style Safety Helmet, Full Brim, Non-Vented, Class E, Hydrographic	Non-vented	Carbon fiber/Graphite effect
CSH-AC-RS	Replaceable Suspension, Safety Helmet	N/A	N/A
CSHACRV	Replaceable Visor, Safety Helmet (requires visor adapter)*	N/A	N/A
CSHACVA	Visor Adapter*	N/A	N/A
CSHACSTI	Reflective Sticker, Safety Helmet	N/A	N/A
CSHACUV	Replaceable Uv Shade	N/A	N/A
CSHRSB	Sweatband, Fibre Metal Type II Climbing Style Safety Helmet	N/A	N/A
CSH-AC-CSNE	Replaceable Chin Strap, Safety Helmet	N/A	N/A

MOQ (minimum order quantity) = 1 Case (8 Helmets)

\* CSHACRV and CSHACVA are compatible only with the no brim model.

**For Information on Innovations and Patents**

[www.pip-hsp-patents.com](http://www.pip-hsp-patents.com)

**For More Information**

[www.pip-hsp.com](http://www.pip-hsp.com)

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