




**PIP**

# TRAVERSE<sup>TM</sup> SAFETY HELMETS

FEATURING MIPS<sup>®</sup> TECHNOLOGY

[www.pipusa.com](http://www.pipusa.com)

**Mips**

A full-page background image featuring three construction workers. In the foreground, a man in a white hard hat with red accents, a grey t-shirt, and a high-visibility yellow safety vest with reflective stripes. He is wearing black gloves and holding a large adjustable wrench. Behind him, another man in a white hard hat and safety glasses stands with his arms crossed. To the right, a third man in a black hard hat and a black t-shirt is partially visible, also smiling. The background shows a construction site with a tall building under construction and a crane against a clear blue sky.

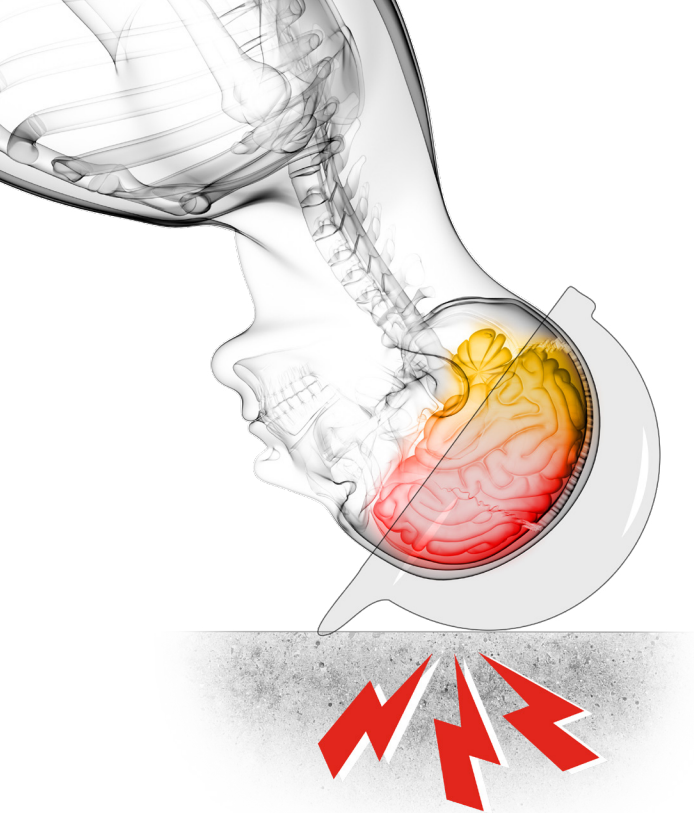
For nearly 100 years the basic purpose of hard hats has remained the same – to help protect the head against impacts from falling objects from above.

While this is still critically important for construction and maintenance workers, data is now telling us that:

**NEARLY 60%  
OF HEAD INJURIES**

ARE CAUSED BY FALL ACCIDENTS  
FROM HIGHER LEVELS  
OR FALLS ON THE SAME LEVEL

**IT'S TIME TO  
MOVE FORWARD**



# The Science of Head Injury

CONCUSSIONS AND TRAUMATIC BRAIN INJURIES ARE COMMONLY THE RESULT OF ROTATIONAL FORCE AND STRAIN TO THE BRAIN.

Injury statistics demonstrate that when someone trips on a level surface, they are more likely to fall at an angle instead of directly on top of the head. This is due to the forward energy of motion that may extend to the head when hitting the hard ground surface. Over the past few years, science has shown that our brains are very sensitive to rotational forces.

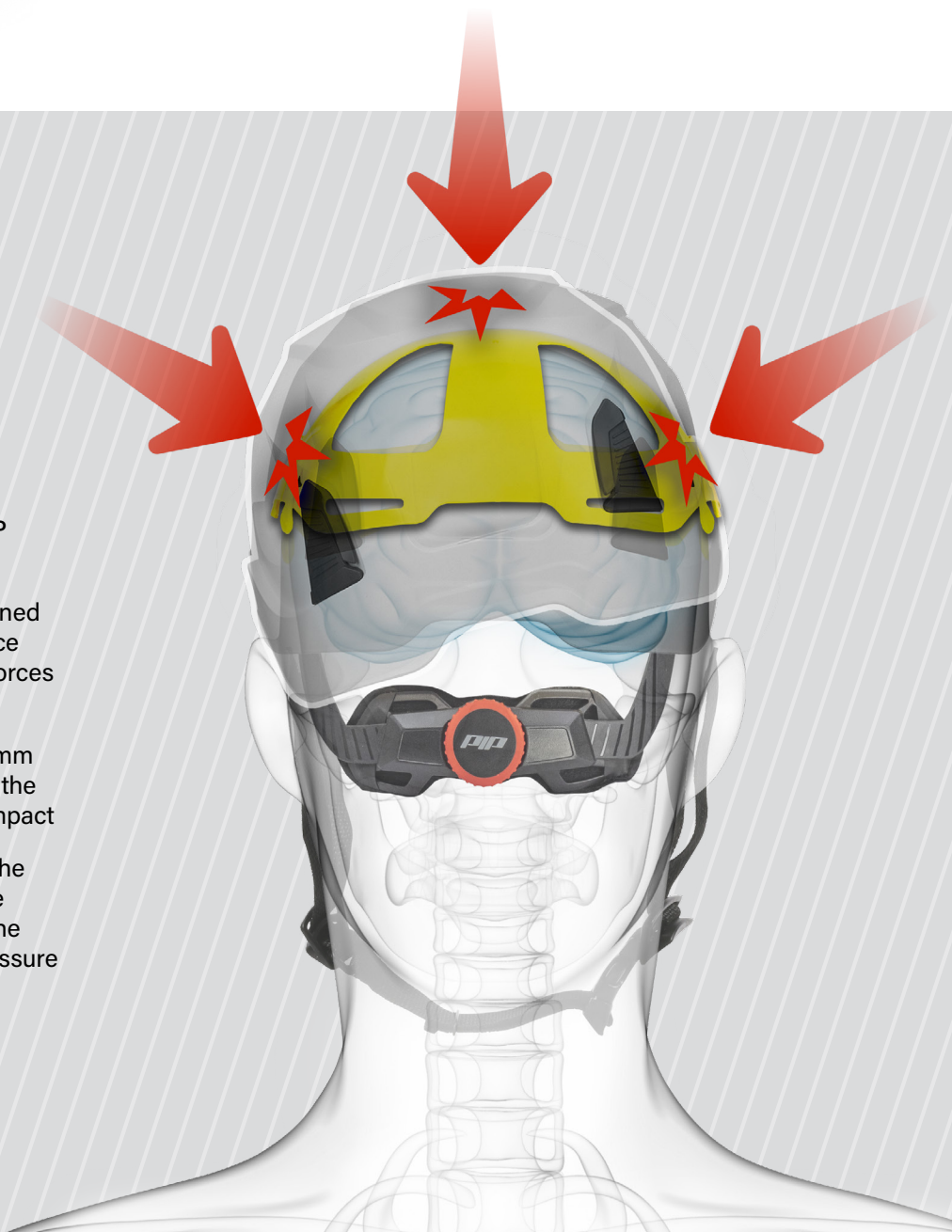
**IN THIS SCENARIO, CONVENTIONAL HARD HATS WITHOUT A CHIN STRAP WOULD LIKELY FLY OFF. A CHIN STRAP HELPS, BUT IS IT ENOUGH?**

**Mips**

## Introducing Mips® Technology

A LOW FRICTION LAYER DESIGNED TO HELP REDUCE THE SEVERITY OF HEAD INJURIES

- > At impact the Mips® Safety System is designed to help reduce the amount of rotational force transferred to the head by redirecting the forces that are generated by the impact
- > The Mips® Safety System allows for a 10-15 mm relative movement between the helmet and the head during the critical first 5-10ms of the impact
- > It is not uncommon that the point load on the head/helmet at impact is at 2,200 lbs. – the Mips® Safety System is designed to allow the helmet to move even under this kind of pressure



# PIP® TRAVERSE™ SAFETY HELMET MEETS BOTH:



## ANSI Z89.1

Industrial Head  
Protection

AND



## EN 12492

Mountaineering  
Equipment Standard

### TYPE II

3rd Party Certified

#### Force Transmission

*must be less than an  
average of 831 lb/ft*

#### 4 Off Center Penetration Tests

*Front, Back and Sides*

#### Impact Energy Attenuation

*Maximum attenuation shall  
not exceed 150g*

#### Shock Absorbing Capacity

*(Clauses 4.2.1.2; 4.2.1.3; 4.2.1.4)*

*Must be less than 2,248 lb/ft*

#### Retention System Strength

*(Clause 4.2.3)*

#### Effectiveness of the Retention System

*(Clause 4.2.4)*

#### PENETRATION

2.2 lbs. at 23 ft/s

#### PENETRATION

6 lbs. at 3.28 ft

#### IMPACT ABSORPTION

8 lbs. at 18 ft/s

#### SHOCK ABSORPTION

11 lbs. at 1.64 ft



## Mips

MULTI-DIRECTIONAL  
IMPACT PROTECTION



# PIP® TRAVERSE™ SAFETY HELMET - MIPS®



ALSO AVAILABLE IN  
A VENTED OPTION

**280-HP1491RVM**  
Vented Shell

**ANSI**  
Z89.1

**EN**  
12492\*

IMPACT TYPE  
**II**

ELECTRICAL CLASS  
**C**

**Mips**



## 280-HP1491RM

Non-Vented Shell

- Super lightweight ABS shell for wearer comfort
- Low frictional layer designed to reduce rotational motion transferred to the head from angled impacts
- EPS foam impact liner helps absorb the forces of front, side, or rear impacts
- 4-point quick-release chin strap for a proper fit
- Sure-lock wheel ratchet for an effortless fit
- Inner padding for added comfort
- Traverse™ specific accessory slots and universal accessory slots on side of safety helmet

**ANSI**  
Z89.1

**EN**  
12492\*

IMPACT TYPE  
**II**

ELECTRICAL CLASS  
**E**

### COLORS AVAILABLE



STYLE NUMBER	SIZE ADJUSTMENT	SHELL	COLOR	SHELL MATERIAL	ANSI Z89.1	EN 12492	ELECTRICAL CLASS
280-HP1491RM-01	Sure-Lock Wheel Ratchet	Non-Vented	White	ABS	Type II	Yes	Class E
280-HP1491RM-02	Sure-Lock Wheel Ratchet	Non-Vented	Yellow	ABS	Type II	Yes	Class E
280-HP1491RM-03	Sure-Lock Wheel Ratchet	Non-Vented	Orange	ABS	Type II	Yes	Class E
280-HP1491RM-04	Sure-Lock Wheel Ratchet	Non-Vented	Dark Green	ABS	Type II	Yes	Class E
280-HP1491RM-08	Sure-Lock Wheel Ratchet	Non-Vented	Navy Blue	ABS	Type II	Yes	Class E
280-HP1491RM-09	Sure-Lock Wheel Ratchet	Non-Vented	Gray	ABS	Type II	Yes	Class E
280-HP1491RM-11	Sure-Lock Wheel Ratchet	Non-Vented	Black	ABS	Type II	Yes	Class E
280-HP1491RM-15	Sure-Lock Wheel Ratchet	Non-Vented	Red	ABS	Type II	Yes	Class E
280-HP1491RM-44	Sure-Lock Wheel Ratchet	Non-Vented	Hi-Vis Yellow	ABS	Type II	Yes	Class E
280-HP1491RVM-01	Sure-Lock Wheel Ratchet	Vented	White	ABS	Type II	Yes	Class C
280-HP1491RVM-02	Sure-Lock Wheel Ratchet	Vented	Yellow	ABS	Type II	Yes	Class C
280-HP1491RVM-03	Sure-Lock Wheel Ratchet	Vented	Orange	ABS	Type II	Yes	Class C
280-HP1491RVM-04	Sure-Lock Wheel Ratchet	Vented	Dark Green	ABS	Type II	Yes	Class C
280-HP1491RVM-08	Sure-Lock Wheel Ratchet	Vented	Navy Blue	ABS	Type II	Yes	Class C
280-HP1491RVM-09	Sure-Lock Wheel Ratchet	Vented	Gray	ABS	Type II	Yes	Class C
280-HP1491RVM-11	Sure-Lock Wheel Ratchet	Vented	Black	ABS	Type II	Yes	Class C
280-HP1491RVM-15	Sure-Lock Wheel Ratchet	Vented	Red	ABS	Type II	Yes	Class C
280-HP1491RVM-44	Sure-Lock Wheel Ratchet	Vented	Hi-Vis Yellow	ABS	Type II	Yes	Class C

\*EN12492: SHOCK ABSORBING CAPACITY (CLAUSES 4.2.1.2; 4.2.1.3; 4.2.1.4), RETENTION SYSTEM STRENGTH (CLAUSE 4.2.3), EFFECTIVENESS OF THE RETENTION SYSTEM (CLAUSE 4.2.4)



## CUSTOM ACCESSORY OPTIONS

FOR PIP® TRAVERSE™ SAFETY HELMET

*All Accessories Sold Separately*



### 251-HP1491P

Eye Shield Protector

*Smoke*

- Protects the eye shield from scratches
- Has a mounting slot on protector to allow headlamp to be worn



### 280-HP1491FSUN

360 Degree

Fabric Sunshade



ANSI Z87+

### 251-HP1491C

*Clear*



ANSI Z87+

### 251-HP1491G

*Smoke Gray*

Eye Shield

- Provides eye protection against hazards
- Scratch resistant and anti-fog



### 251-HP1491PFS

Polycarbonate

Faceshield Set



### 280-HP1491KIT

Reflective Decal Kit

*Silver*

- Reflective sticker kit for increased visibility at night
- Only available in silver



### 280-HP1491VC

Vent Covers

- Made from TPR
- Close vents on top of helmet to protect against rain

### 280-HP1491NS

#### Neck Sunshade

- Provides sun and rain protection for the neck
- Made from hi-vis ripstop material with reflective striping



*Head lamp not included  
and is not sold by PIP®*



### 280-HP1491SUN

#### Sun Brim Extension

- Brim clips onto the front of the helmet for additional protection from the sun or rain
- Easy on/off clips

### 280-HP1491BAGB

#### Basic Storage Bag

- Drawstring bag
- Soft bag to protect against damage during storage and transport



### 280-HP1491BAGD

#### Deluxe Storage Bag

- Zippered storage bag to easily hang and store product to protect from damage during storage and transport
- Identification label on front of bag



### 280-HP1491TAG

#### Name Tag Holder

- Easy to install plastic name tag holder to allow for quick identification of the worker
- Weather resistant

## REPLACEMENT PARTS



### 251-HP1491PF

Polycarbonate



### 251-HP1491MF

Metal Mesh

#### Replacement Faceshields



### 251-HP1491B

#### Replacement Faceshield Bracket



### 280-HP1491CS

#### Replacement 4-Point Chinstrap



### 280-HP1491LCR

Red



### 280-HP1491LCG

Dark Gray

#### Replacement Lamp Clips

- Pack of 4
- Universal strap holder for head lamp



### 251-HP1491PC

#### Replacement Eye Shield Protector Connector

- Replacement clips to connect the eye shield to the helmet
- Pack of 2



### 280-HP1491PAD

#### Replacement Pad Kit

- 3-piece replacement padding set
- Crown, front and rear padding



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