

# TANIZAWA Industrial safety helmets

## Tanizawa industrial safety helmets & bump caps are all made in Japan.

Strict quality controls are conducted at TANIZAWA's Ibaraki Factory, which supplies safety products not only to Japan but also to customers around the world.

### Certification of ISO 9001: 2015 (Quality management system)






The head office of the Tanizawa Seisakusho, Ltd. and the Ibaraki Factory of the Joban Tanizawa Seisakusho, Ltd. (a manufacturing subsidiary) have obtained the quality management system "ISO 9001" certification.

### Certification of ISO 14001: 2015 (Environmental management system)

The head office of the Tanizawa Seisakusho, Ltd. have obtained the environmental management system "ISO 14001" certification.

### Safety Standard

All of TANIZAWA's industrial safety helmets have passed the national examination of the Japanese Ministry of Health, Labor and Welfare standards. In addition, many models have acquired the JIS T 8131:2015 certification. (JIS standard certification is optional) The Ministry of Health, Labor and Welfare Ministry of Japan and JIS T 8131: 2015 have the following categories.

Classes (symbols)	Classification by use	Function
	For protection against flying or dropping objects	Prevents or reduces the danger caused by flying or dropping objects.
	For protection in the events of tumbling and falling down	To be for protection in the events of tumbling and falling down.
	For protection against flying or dropping objects For protection in the events of tumbling and falling down	Prevents or reduces the danger caused by flying or dropping objects and for protection in the events of tumbling and falling down.
	For against flying or dropping objects For electrical insulation at high voltage (service voltage: 7,000V or under)	Prevents or reduces the danger caused by flying or dropping objects, and protects the head against electric shocks.
	For against flying or dropping objects For protection in the events of tumbling and falling down For electrical insulation at high voltage (service voltage: 7,000V or under / Without ST#121-CZ)	Prevents or reduces the danger caused by flying or dropping objects and for protection in the events of tumbling and falling down, and protects the head against electric shocks.

#### ○ For protection against flying or dropping objects

This standard is a helmet standard commonly used around the world. Details of commonly used standards (such as ANSI, EN, JIS) are almost the same.

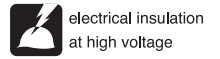
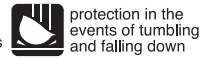
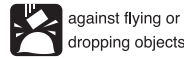
#### ○ For protection in the events of tumbling and falling down

This standard is unique to Japan and corresponds to falls. By equipping a shock absorbing liner, the safety of the helmet was improved without the need to enlarge the shell.

#### ○ For electrical insulation at high voltage

Voltage used is set by Japanese standards. This is different from the test voltage.  
High voltage : Test voltage = 20,000 V / 1 min. Service voltage : 7,000V or under  
Low voltage : Test voltage = 3,000 V / 1 min. Service voltage : 600V or under

※ In this catalogue, the symbols shown in the table shows the protection range of each model.

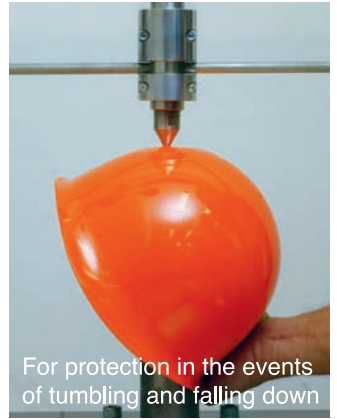


## Standard test

### Impact absorption test



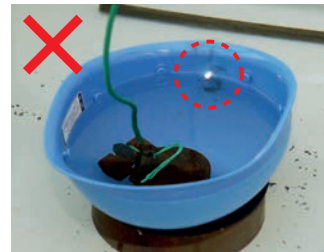
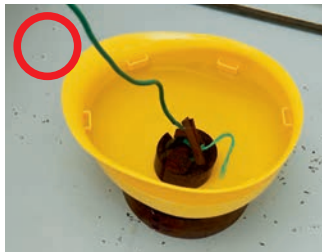
### Penetration resistance test



Impact absorption performance of safety helmets are measured by free-falling a 5kg semi-spherical iron ball or iron disk from a height of 1m.

Resistance against pointed or sharp objects is measured by dropping a conical weight and checking the helmet for any deformations.

### Withstand voltage test of shell



This is a test to measure resistance to electricity. Electrodes are placed inside and outside the shell in water, and the helmet has to withstand a voltage of 20,000V for high voltage models with working voltage of 7,000V or less, and 3,000V for low voltage models with working voltage of 600V or less, for a duration of 1 minute in order to pass the test. If the shell is damaged or cracked, leakage will occur, resulting in sparks forming.

## Certification label

On the inside of the shell, there is a certification label that indicates the helmet has passed Japanese standards.

Most models only have the Ministry of Health, Labor and Welfare standards certification, while some models have JIS certification added to the label. They are all written in Japanese.

### The Ministry of Health, Labour and Welfare standard certification

型式名称 / Model name	型式名称: 148-E3	帽体材質 / Shell Material = ABS
保護帽 / Safety helmet	保護帽	
Date of certification	労( 2015.3 ) 検	
Certification number	(1) TH3199 (3) TF758	
製造業者 / Manufacturer	製造業者 (株) 谷沢製作所	Tanizawa Seisakusho, Ltd
製造年月 / Date of manufacture	製造年月 2023.7	July 2023
Certification items	(1) 飛来落下物用 (3) 電気用7,000V以下	(1) 飛来落下物用 / flying or dropping objects (3) 電気用 7,000V 以下 / To be of electrical insulation (7000V or under in service voltage)

JIS Logo	JIS 産業用安全帽	Industrial safety helmet
Certificate authority/ Japan Quality Assurance Organization (JQA)	飛来落下物用 電気用(最大電圧7000V) 耐電圧試験20000V 10mA以下	For protection against flying or dropping objects For electrical insulation at high voltage (Maximum voltage: 7,000V) To have passed withstanding voltage test (20000V and 10 mA or under)
certification number	JQA JQ0306024	Manufacturer / Joban Tanizawa Seisakusho, Ltd.
JIS standard number	JIS T 8131	Manufacturing date / July 2019

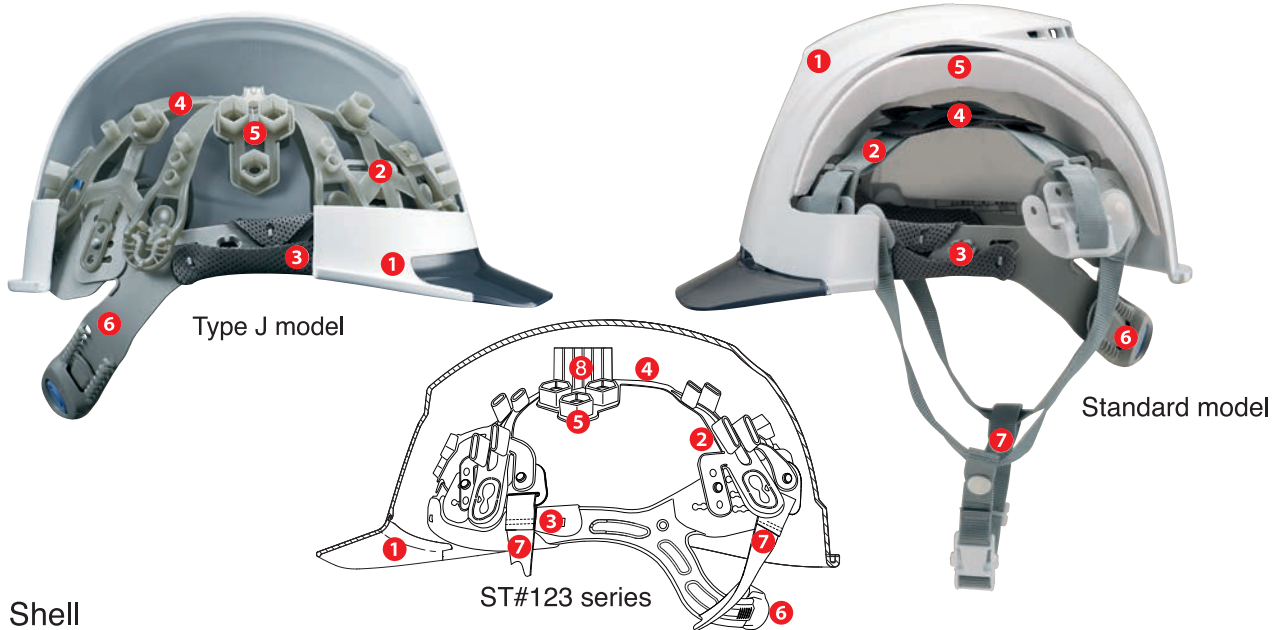
### Japanese Industrial Standards(JIS) certification

着用時の注意: ヘッドバンドはあなたの頭に良くフィットするように調節してください。着用後あご紐は必ず正しく締めてください。  
使用上の注意: 一度でも大きな衝撃を受けた安全帽は外観に損傷がなくても使用しないでください。部品の改造又は取外し禁止の注意: 安全帽に初めからついている部品を改造し又は取り除かないこと。

Cautions at the time of wear : After putting on the helmet, the chin strap needs to be properly fastened and adjusted.  
Precautions for use : Please do not use safety helmets which have been exposed to strong impacts, even if there are no visible damage on the helmets.  
Caution regarding prohibition of modification or removal of parts: Please do not modify or remove parts that have been attached to the safety helmet from the beginning.

Usually, only the Ministry of Health, Labor and Welfare standard certification part. JIS standard labels are optional.

# Component Parts



## 1 Shell

The hard, smoothly finished material that provides the general outer form of helmet. It protects the head from direct impact and penetration from flying or falling objects. Holes inside the FRP shell fix the fittings (suspension) in place.

## 2 Fittings (Suspension)

The fittings (suspension) are composed of a hammock, a headband, a chin strap etc. These fittings are the parts other than the shock absorbing liner, which are fitted to the inside of the shell in order to soften the impact acting on the head of the wearer. Type J suspension is a fittings with the function of Impact absorption liner. Type J suspension is an international patent product of TANIZAWA.

## 3 Headband

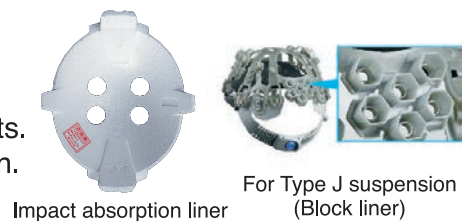
The headband is fixed to the fittings (suspension). It helps soften impacts and absorbs moisture. Ensures helmet is fitted to users head securely.

## 4 Hammock

The hammock is fixed to the shell in two ways: hook-type and tack-type. Made of impact absorbing material, it is able to reduce the force of impact on the user's head.

## 5 Impact absorption liner (Block liner)

Parts fitted to the inside of the shell. Block liner is attached to the Type J, J-S suspension. The liner reduces the forces of impact from flying or falling objects. In the Type J model, the suspension is responsible for its function.



Impact absorption liner For Type J suspension (Block liner)

## 6 Easy Push-release Adjuster (EPA)

EPA (Easy Push-release Adjuster) is a proprietary product of Tanizawa. The EPA enables the user to adjust the fit of the helmet with one push of a button while wearing the helmet.



EPA

## 7 Chin strap (4 point)

It secures the helmet to the user's head, and prevents it from falling off upon impact. It also ensures the helmet is fitted properly.

## 8 Support block (ST#123 series only)

A suspension developed to make the shell compact, a shock absorber that is different from the conventional method. Specializing in standards for flying and falling objects.

## Shell materials

Tanizawa uses the following materials in our safety helmets, to get the maximum possible functionality and comfort.

Material	Property	Flame resistance Heat resistance	Weather resistance	Insulation	Resistance to organic solvents	Note
Thermoplastic resin	FRP	◎	◎	×	○ ~ ◎	Excellent weather resistance and heat resistance but cannot be used to protect against electric shock
	ABS resin	△ ~ ○	△ ~ ○	○ ~ ◎	× ~ △	Excellent protection against electric shock, but unsuitable for use in high heat environment
	PC resin	○ ~ ◎	○ ~ ◎	◎	× ~ △	Better weather resistance than ABS, but unsuitable for organic solvents and chemicals
	PE resin	× ~ △	○	○ ~ ◎	○ ~ ◎	Ideal for use in situations using organic chemicals

◎particularly excellent ○excellent △slight weakness ×weak \*Electricity conducted through rivet holes

## EPA Easy Push-release Adjuster

**EPA allows you to adjust the fit of the helmet with one hand, while it is on your head.**

- The headband and chinstrap prevent the helmet from slipping and falling off.
- A new, highly breathable material called 'Mawus™' provides excellent sweat absorption abilities.
- Large ventilation holes in the headband ensure the wearer long-lasting comfort in the workplace.

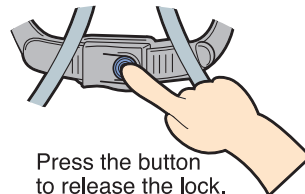


Easy Push-release Adjuster



Adjust the size by sliding the strap (3mm pitch) and lock in place.

Adjustable size  
EPA III 53-62cm  
EPA IV 53-63cm  
EPA III-L 56-65cm



Press the button to release the lock.



Impact absorption liner

### Impact absorption liner

Tanizawa's internal test (equivalent to rider's grade) has shown that the impact absorption liner can reduce the impact load of accidental falls by up to 1/3 compared to helmets without a liner.

## The explanation of the "TANIZAWA" model number

**S T # 0 1 2 3 0 V - E P Z**

Indicates the shell has the same shape in a different material

Product Code Name (a three-digit number)

With ventilation hole (last one-digit = 0)

\*2 Type of rivet  
\*1 Type of suspension  
V : With transparent peak  
L : Large sized shell

\*1 Suspension : Please refer to page 21 of our catalog. It consists of Hammock, Liner and Tape.

\*2 Material of Rivet : **P** stands for "Plastic"  
**M** stands for "Metal"

\*3 Liner : The parts for shock absorption. Please refer to page 22 of our catalog.

\*3 Indicates a liner is incorporated