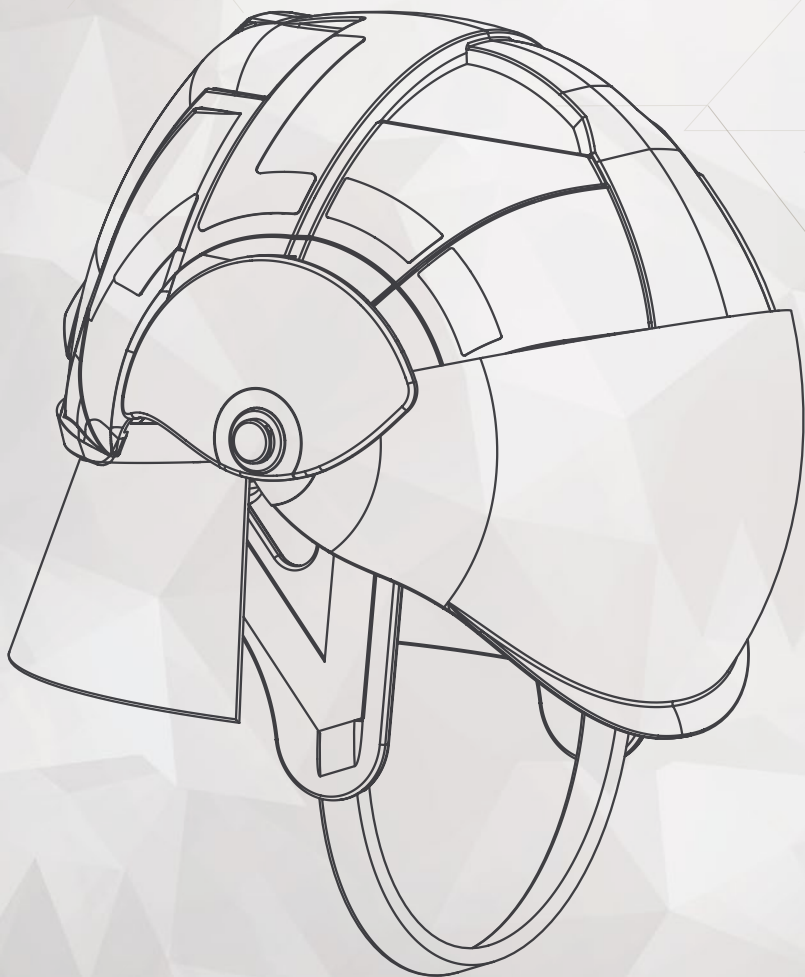




PAB Akrapović

Fire Compact

· user manual ·



Helmet for structural firefighting

CERTIFICATES: EN 443 | EN 14458 | EN 166 | MED

When conditions are at their worst,
we are at our best.

THINKING AHEAD

firefighting & safety helmet series

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PAB Fire Compact

We thank you for selecting a PAB Akrapović product.

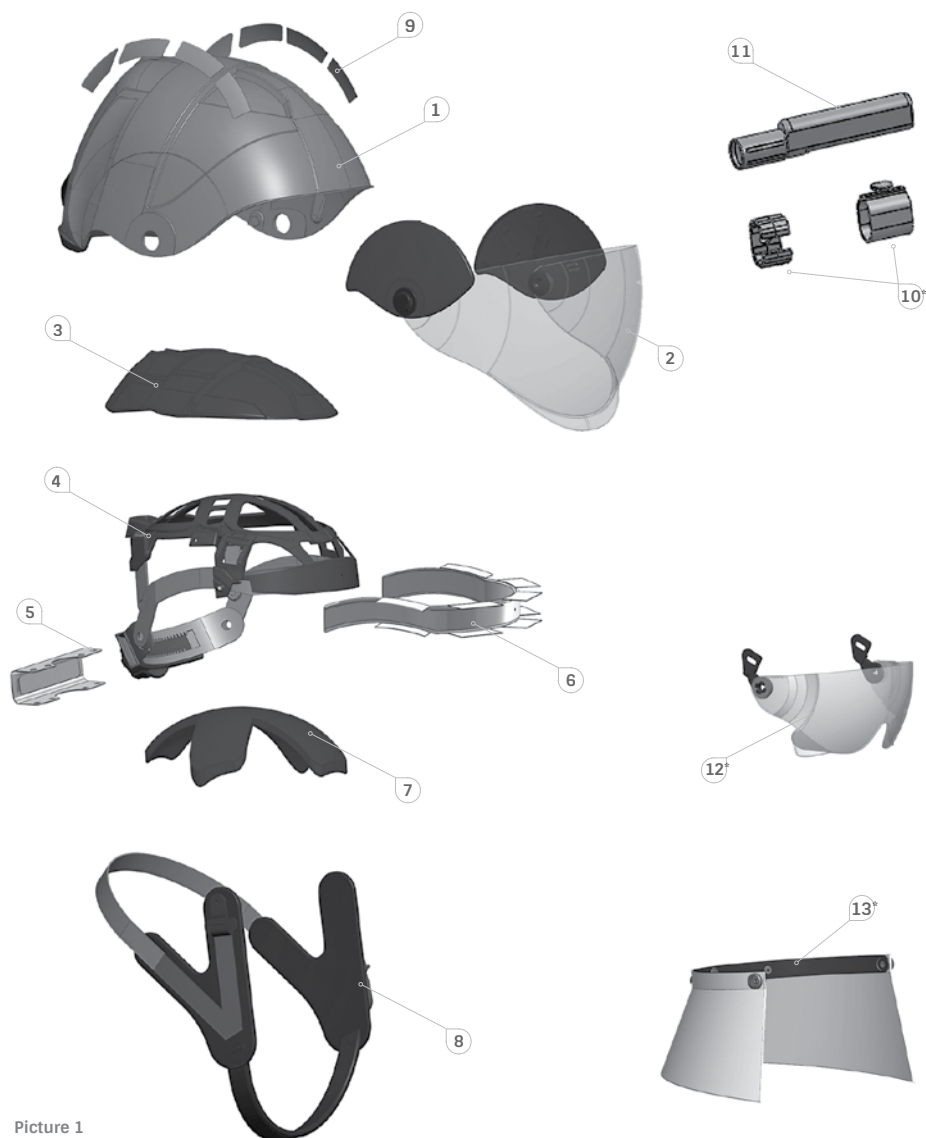
PAB helmet model **Fire Compact** is in conformity with **Regulation (EU) 2016/425**, with reference to standard **EN 443:2008**, and is in compliance with **Directive 2014/90/EU** on Marine Equipment (MED). The integrated goggles and optionally available face visor meet standards **EN 14458:2004** and **EN 166:2001**.

It has been designed to protect the head under the most extreme conditions. It has an optimal relationship between protection and comfort with a broad spectrum of optional upgrades.

- ① **SHELL Fire Compact**
- ② **FACE SHIELD/VISOR with COVERS L/R**
- ③ **IMPACT LINER**
- ④ **INTERIOR BASKET**
- ⑤ **ADJUSTABLE NECK PIECE with REGULATOR**
- ⑥ **HEADBAND PAD**
- ⑦ **HEAD PAD**
- ⑧ **CHINSTRAP**
- ⑨ **REFLECTIVE STICKERS**
- ⑩ **LAMP HOLDER ***
- ⑪ **LAMP ***
- ⑫ **INTERNAL GOGGLES ***
- ⑬ **NECK PROTECTOR ***

*Optional Accessory

EXPLODED VIEW



Picture 1

PAB Fire Compact

SAFETY NOTICE



Important!

PAB Fire Compact helmet is a safety helmet for the head intended for structural firefighting in buildings and other structures, as for other typical tasks and interventions of fire brigades.

Read the instructions carefully before wearing the helmet.

PAB accepts no liability, if the product has been used inappropriately or if it is not used as intended. Product liability claims and warranties made by PAB for the product are voided, if the product is not used, serviced or maintained properly.

Before wearing the helmet you should perform a detailed inspection of the helmet and check if all its components are in their place and properly fixed.

An unusual event may require to replace a product after only one use. This depends on the type and intensity of use, or the environment in which it is used: aggressive environments, extreme temperatures, contact with chemicals, strong impacts...

The length of the useable life of this helmet will be affected by the types of materials used in its construction and the environments in which the helmet is used and stored. Recommendations on this topic should be sought from the manufacturer.

**Warning:**

Inappropriate use, maintenance or servicing can affect the function of the helmet and can seriously endanger the user's life. The helmet's operability must be checked and verified before each use. The helmet is not to be used if the operability test is unsuccessful, if the helmet is damaged, if proper servicing or maintenance has not been made, or if PAB original spare parts have not been used.

When fitted with another item of personal protective equipment or with an accessory (other than as supplied by the helmet manufacturer for use with this helmet) a helmet marked as complying with **EN 443** might no longer satisfy all clauses of the standard. Refer to information provided by the helmet manufacturer.

The helmet provides protection of head and face against shock, sharp objects, splatters of corrosive chemicals (Sulphuric acid, Sodium hydroxide, p-Xylene, Butan-1-ol, n-Heptane), molten metals, radiating heat, flames, electric current. The user's protection is not guaranteed in situations where the conditions exceed those described in the specifications above.

The helmet absorbs the energy of a blow by partial destruction of, or damage to, the helmet. Even though such damage may not be readily apparent, any helmet subjected to severe impact should be replaced.

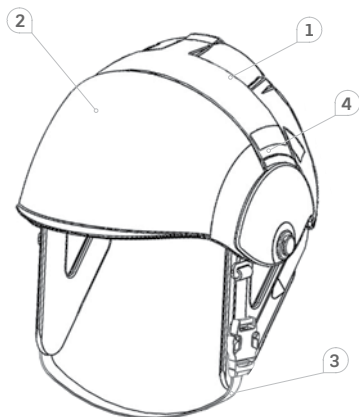
Replace any damaged parts only with original PAB parts, as only these original parts are authorised and ensure the performance of the helmet.

**Warning:**

Safety provided by the helmet can only be ensured when it is properly assembled and correctly fitted, removable parts shall not be worn separately.

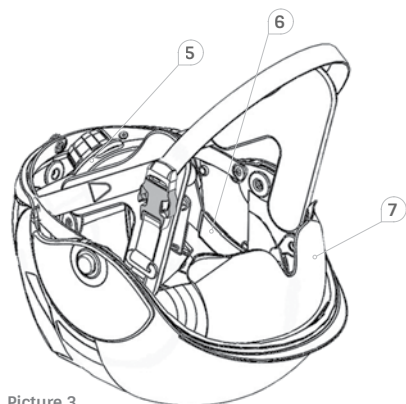
This helmet complies with the retention requirements of standard **EN 443:2008**, only when the chin strap supplied by PAB is worn and adjusted in accordance with these instructions.

PAB Fire Compact



Picture 2

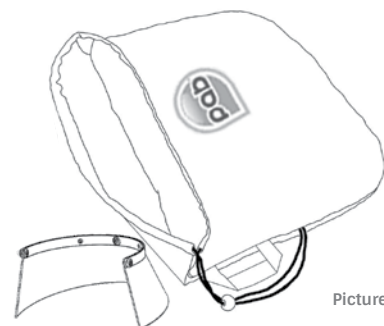
- 1 **SHELL Fire Compact**
- 2 **FACE SHIELD/VISOR**
- 3 **CHINSTRAP**
- 4 **REFLECTIVE STICKERS**



Picture 3

- 5 **ADJUSTABLE NECK PIECE with REGULATOR**
- 6 **INTERIOR BASKET**
- 7 **INTERNAL GOGGLES ***

*Optional Accessory



Picture 4

- 9 **NECK PROTECTOR ***
- 10 **TEXTILE BAG FOR STORING AND TRANSPORT**

TECHNICAL DATA

Helmet sizes	For head sizes from 52 cm to 64 cm (20.5 inches to 25.2 inches)
Weight (helmet with face shield, integrated internal goggles and leather chin strap, no optional accessories)	1165 g \pm 30 g The weight may vary depending on the colour (e.g. photoluminescent colour). When optional accessories are fitted to the helmet the weight changes.
Optional accessories	<ul style="list-style-type: none"> • Neck protectors: standard versions (leather, aluminised fibre, Nomex or meta-aramid) or all round version ("Holland style") • Lamp holders • Lamps • Internal goggles

WARRANTY

The product warranty period for PAB helmets and helmet's optional accessories produced by PAB Akrapović is two (2) years.

PAB Akrapović guarantees that the delivered PAB products will conform to their technical specifications and will be free from defects in materials and workmanship.

This warranty does not apply to helmets and optional accessories which are misused, or abused, or damaged from installation of accessories not produced by PAB Akrapović, or not used in accordance with user manual.

PAB helmets and accessories provide protection for the wearer's head during exposure to extreme conditions (aggressive environments, extreme temperatures, flame, corrosive chemicals, strong impacts) and during use of the helmet under the described conditions, the helmet and/or accessories may get irreparably damaged. Damages that are caused by use under the described conditions are not covered by our product warranty.

PAB Akrapović product warranty does not cover, and does not make any warranty with respect to any defect, failure, deficiency, or error which is:

- not timely reported to the producer; or
- due to misapplication, modification; or
- due to dirt or exposure to extreme conditions; or
- due to operation, either intentional or otherwise, in an improper manner.

CERTIFICATIONS AND TECHNICAL SPECIFICATIONS

The helmet meets the requirements of Regulation (EU) 2016/425 and is certified according to EN 443:2008, EN 14458:2004, EN 166:2001 and Marine Equipment Directive (MED) standards.

Helmet – Standards, Directives and Markings

Certification agency	CSI S.p.A, Viale Lombardia 20/B, 20021 Bollate (MI), Italy, Notified Body No.: 0497	
Directives and Standards	Regulation (EU) 2016/425	Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment
	EN 443:2008	“Helmets for firefighting in buildings and other structures “
Marking	A3b	Indicates the protection zone assured by the helmet (protects dome of the skull and the frontal chin region)
	***	Indicates protection at low temperatures down to -30°C
	E2	Indicates the electrical insulation of the wet helmet
	C	Indicates resistance to liquid chemicals (Sulphuric acid, Sodium hydroxide, p-Xylene, Butan-1-ol, n-Heptane)

Certification agency	Det Norske Veritas GL AS, Norway, Notified Body No.: 0575	
Directives and Standards	MED	Marine Equipment Directive
Marking	⚙	Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 on marine equipment

Face Shield – Standards, Directives and Markings

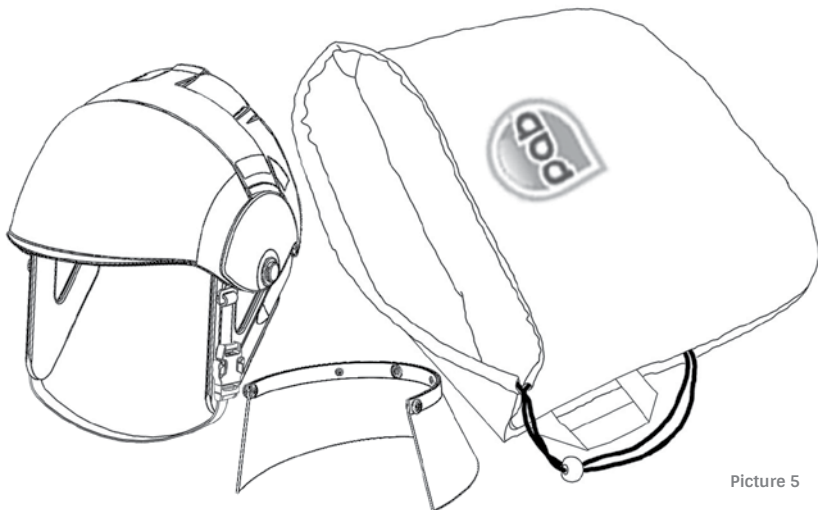
Certification agency	CSI S.p.A (0497), Viale Lombardia 20/B, 20021 Bollate (MI), Italy, Notified Body No.: 0497	
Directives and Standards	Regulation (EU) 2016/425	Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment
	EN 14458:2004	“Personal eye-equipment – Face shields and visors for use with firefighters’ and high performance industrial safety helmets used by firefighters, ambulance and emergency services “
Marking	-30°C +120°C	Extremes of temperatures at which the visor has been tested (down to -30°C and up to +120°C)
	⊕	Visor type – face guard
	+	Conforms to the parameters for firefighters
	T	Resistance to medium energy impact at extremes of temperature
	Ω	Complies with electrical properties

Integrated internal goggles – Standards, Directives

Certification agency	CSI S.p.A (0497), Viale Lombardia 20/B, 20021 Bollate (MI), Italy, Notified Body No.: 0497	
Directives and Standards	Regulation (EU) 2016/425	Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 on marine equipment
	EN 166:2001	“Personal eye protection”
	EN 14458:2004	“Personal eye-equipment – Face shields and visors for use with firefighters’ and high performance industrial safety helmets used by firefighters, ambulance and emergency services “

PAB Fire Compact

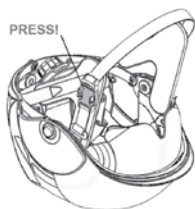
UNPACKING



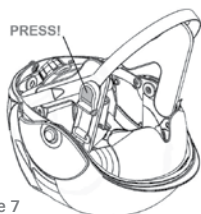
Picture 5

- 1 Remove the helmet from the plastic bag.
- 2 Take out the neck protector (if included) and the textile bag.
- 3 Read the instructions carefully before wearing the helmet.
- 4 Perform a detailed inspection of the helmet and check if all its components are in their place and properly fixed before wearing the helmet.

ADJUSTING THE HELMET



Picture 6

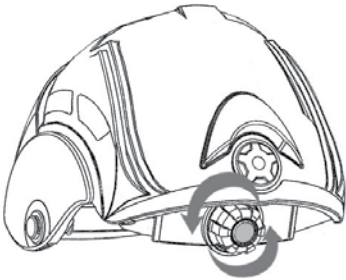


Picture 7

- 1b SNAP-FIT BUCKLE
Open the chin strap – if your helmet configuration includes the snap-fit buckle, press on both sides of the buckle to release.

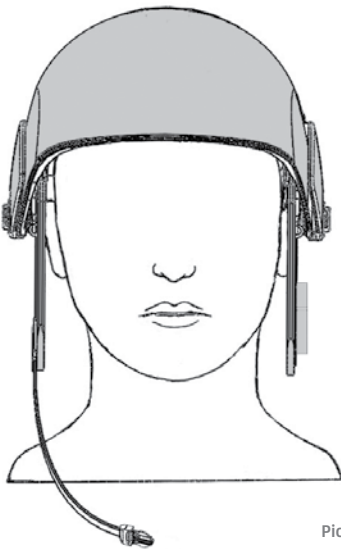
- 1b CAM BUCKLE
Open the chin strap – if your helmet configuration includes the cam buckle, press the red tab ("PRESS") to release.

HANDLING INSTRUCTIONS



Picture 8

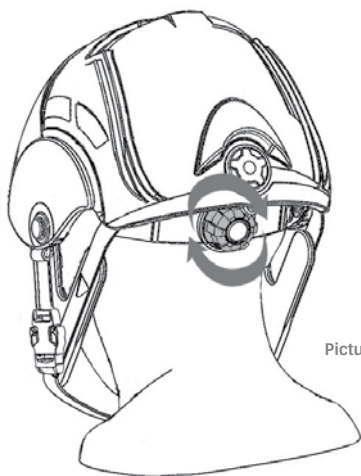
- 2 Loosen the headband: turn the ratchet knob anticlockwise.



Picture 9

- 3 Firmly place the helmet on the head.

PAB Fire Compact



Picture 10

- 4 Tighten the headband: turn the ratchet knob clockwise until the headband is tight but comfortable (fits sizes from 52 to 64 cm). To check whether the headband is correctly adjusted lean your head forward and leave the chin strap unfastened - the helmet shall not fall off.

5b SNAP-FIT BUCKLE

Close/lock the chin strap - if your helmet configuration includes the snap-fit buckle, connect both parts of the buckle to lock the chin strap.



Picture 12



Picture 11

5b CAM BUCKLE

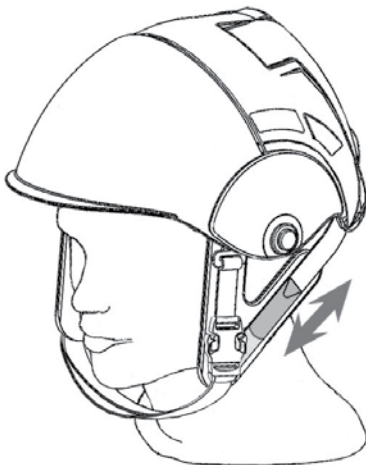
Close/lock the chin strap - if your helmet configuration includes the red cam buckle, connect both parts of the buckle to lock the chin strap.



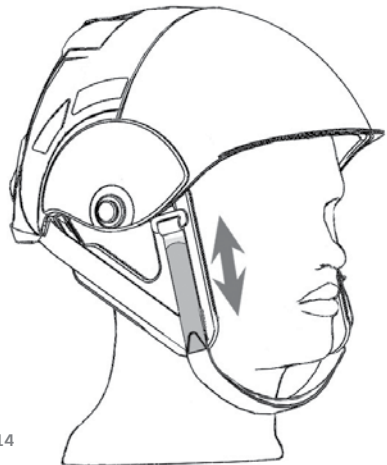
Picture 13

6a STANDARD CHIN STRAP

Adjust the chin strap on the left side: pull the Velcro fastener to tighten the chin strap until tight but comfortable. Press down the metal buckle to secure the chin strap.

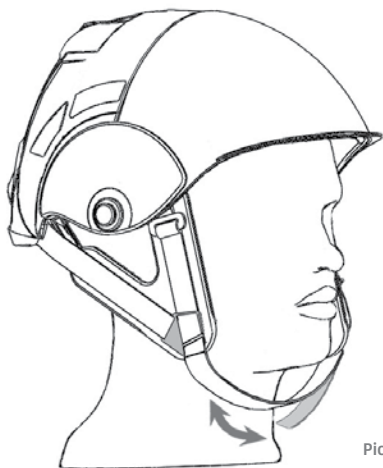


Picture 14



6b TWIN CHIN STRAP

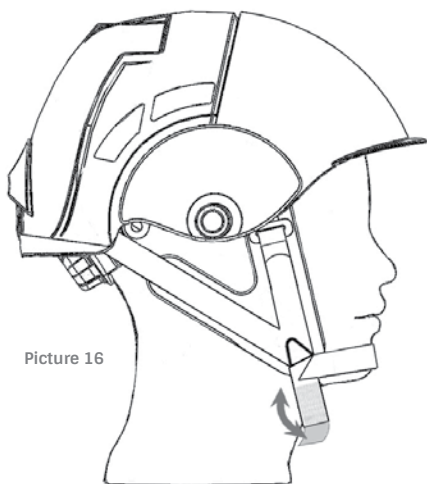
If you purchased the “twin chin strap version”, adjust the left and right side of the chin strap: pull the Velcro fasteners to tighten the chin strap until tight but comfortable. Press down the metal buckles to secure the chin strap.



Picture 15

7a STANDARD CHIN STRAP

Adjust the lower part of the chin strap: pull the Velcro fastener to release the strap and tighten it until tight but comfortable. Press together the two Velcro straps to secure the strap. To facilitate this step, unfasten the chin strap and remove the helmet from the head.

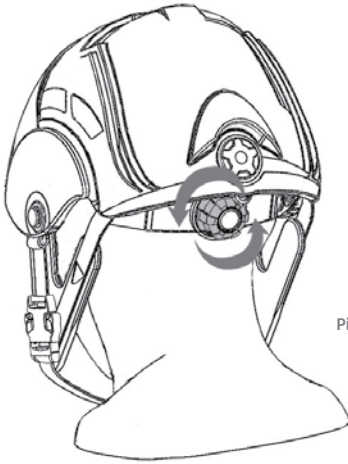


Picture 16

7b TWIN CHIN STRAP

If you purchased the “twin chin strap version” adjust the lower part of the double strap under the chin: pull the Velcro fastener to release the strap and tighten it until tight but comfortable. Press together the two Velcro straps to secure the strap. To facilitate this step, unfasten the chin strap and remove the helmet from the head.

REMOVE THE HELMET



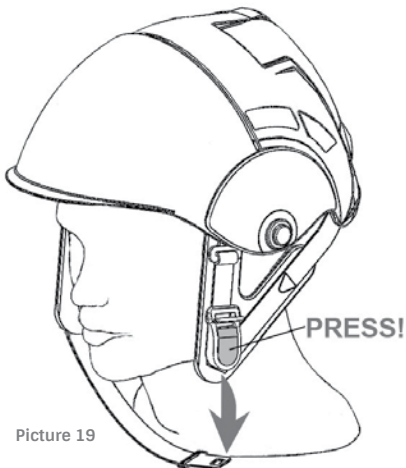
Picture 17

- 1 Loosen the headband: turn the ratchet knob anticlockwise.

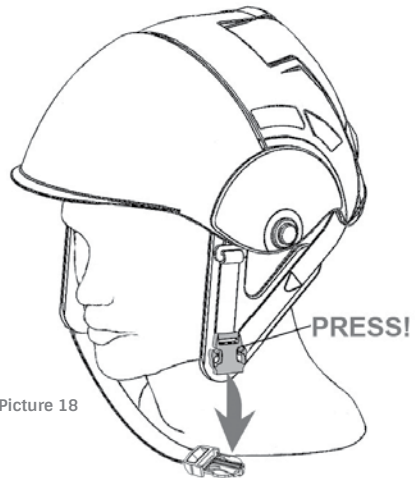
* If you purchased the configuration with the “push to release” knob, press the central part of the knob to easily release the headband.

2a SNAP-FIT BUCKLE

Open the chin strap – if your helmet configuration includes a snap-fit buckle, press on both sides of the buckle to open the chin strap and then remove the helmet from the head.



Picture 19



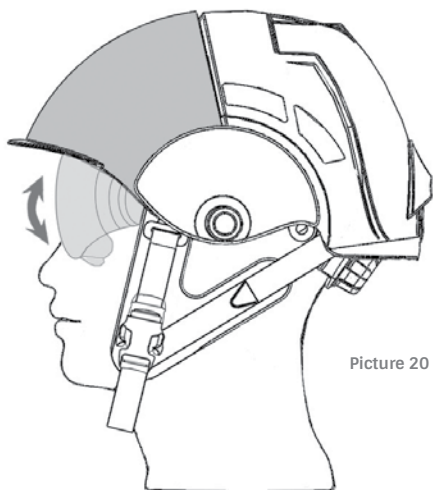
Picture 18

2b CAM BUCKLE

Open the chin strap – if your helmet configuration includes a cam buckle, press the red tab (“PRESS”) to open the chin strap and then remove the helmet from the head.

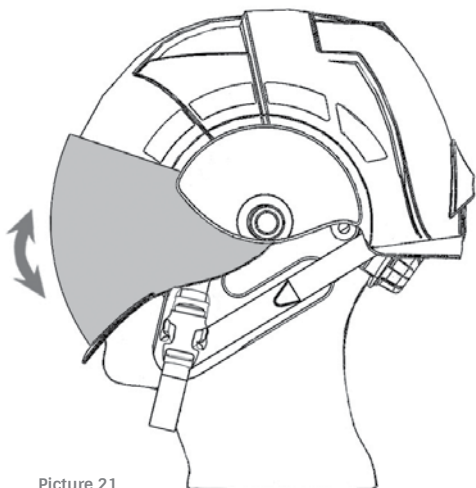
ADJUSTING THE FACE SHIELD/VISOR AND INTEGRATED INTERNAL GOGGLES

(*Internal goggles are optional accessories)



Picture 20

- 1 *If you purchased a version with integrated internal goggles, first position the internal goggles: pull down the goggles into use position. Pull them up into standby position again when not needed. To facilitate this step and to avoid fingerprints on the goggles use the tabs on the bottom left and right part of the goggles.



Picture 21

- 2 Position the face shield: pull it down into use position or pull it up (over the helmet) into standby position. To facilitate this step and to avoid fingerprints on the visor use the bulge at the bottom of the face shield.



Warning:

The face shield and internal goggles will serve to the intended purpose of face and eye guard only in the use position.

While using the breathing apparatus (SCBA) the face shield and internal goggles should be in the standby position (stored over the helmet).

Face shields worn over non-designated corrective frames may transmit impacts which may damage the corrective eyewear thus creating a hazard to the wearer.

Ensure that you are using an EN443 helmet with a face shield marked (+) for structural firefighting.

Any scratched, damaged or dropped face shields and goggles should be replaced. Materials which may come into contact with the wearer's skin could cause allergic reactions to susceptible individuals.

Equipment not marked with 'T' should only be used at non-extreme ambient temperatures.

Service life of visors depends on the conditions of use.

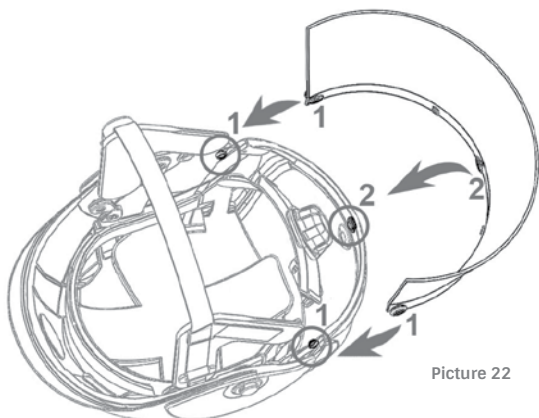
ATTACHING THE NECK PROTECTORS (*Optional)

*Neck protectors are optional accessories. If you purchased the version with a neck protector, please follow the instructions below, depending on the type of neck protector.

Two types of neck protectors can be attached:

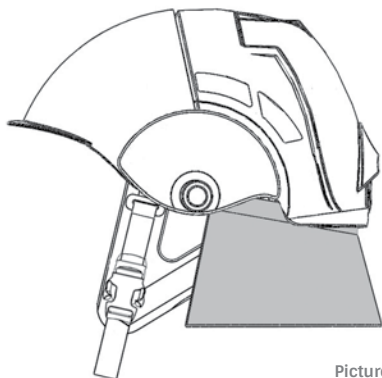
- Standard neck protector for rear protection (leather or aluminised fibre or Nomex or meta-aramid)
- All round neck protector (“Holland style”)

ATTACHING A STANDARD NECK PROTECTOR (3-point attachment)



Picture 22

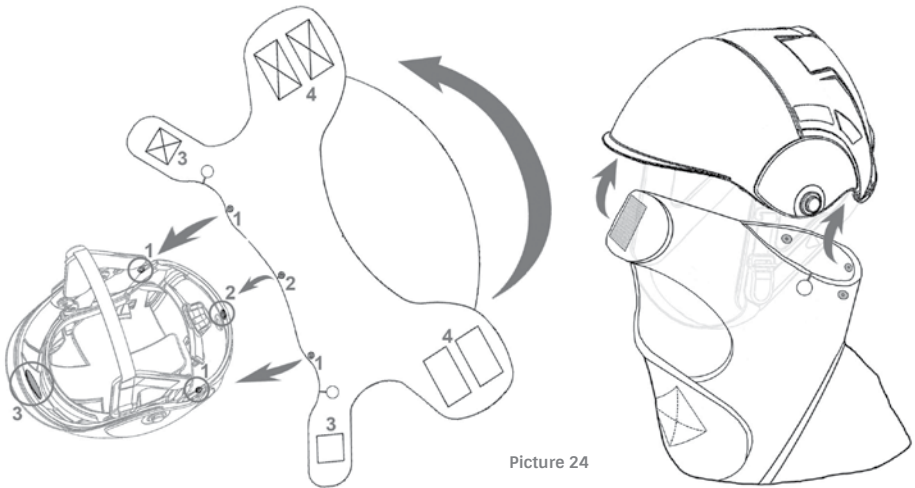
- 1 Attach the neck protector using the 3 snap fasteners on the interior of the helmet's shell: first fasten the neck protector on the snap fasteners on both sides of the helmet (1), then fasten the neck protector on the snap fastener on the rear of the shell (2).



Picture 23

- 2 A helmet with properly fixed standard neck protector.

ATTACHING AN ALL ROUND (“Holland style”) neck protector



Picture 24

- 1 Attach the neck protector using the 3 snap fasteners on the interior of the helmet's shell and the Velcro fastener on the inner front part of the shell:

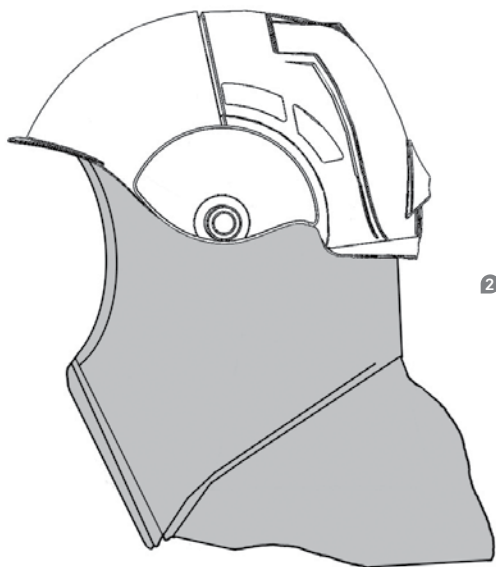
First step: fasten the neck protector to the snap fasteners on both sides of the helmet (see number 1 on Picture 24)

Second step: fasten the neck protector to the snap fastener on the rear of the shell (see number 2 on Picture 24)

Third step: wrap the neck protector using the Velcro fasteners and fasten it to the helmet using the Velcro fastener on the inner front part of the shell (see number 3 on Picture 24). Make sure that the round slots on both sides of the neck protector are positioned around the chinstrap fixing point.

Fourth step: place the helmet on the head, tighten the headband, close the chin strap and close the neck protector using the Velcro fastener at the bottom (see number 4 on Picture 24)

PAB Fire Compact



- 2 A helmet with properly fixed all round neck protector

Picture 25

MOUNTING THE LAMP HOLDERS AND LAMPS (*Optional)

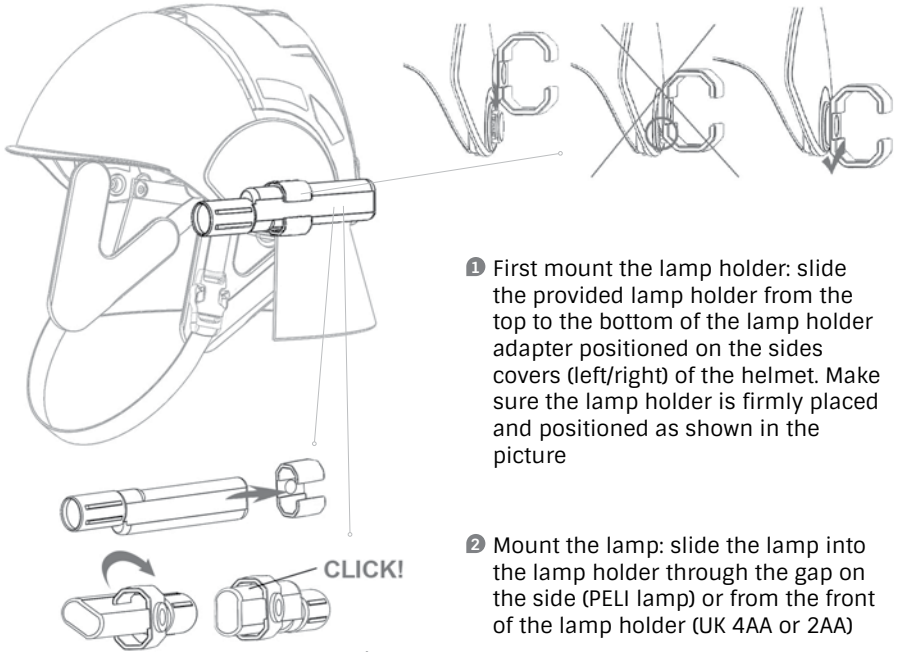
* Lamp holders and lamps are optional accessories. If you purchased a version with a lamp holder and lamp, please follow the instructions below, depending on the type of the lamp.

Different types of lamps can be mounted:

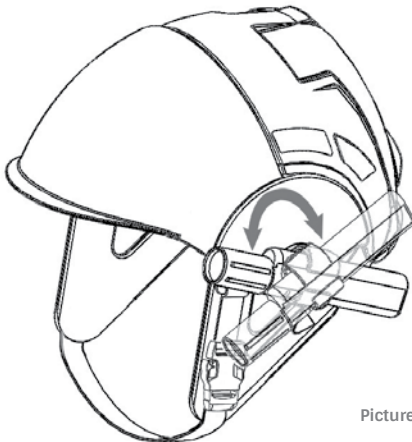
- 2AA or 4AA lamp types
- PELI lamps **

** Only for specific models. Please refer to the manufacturer for more information. For compatibility with other lamp types from other manufacturers please contact PAB Akrapović for more information.

Type I lamp holder (open lamp holder for UK Underwater Kinetics and PELI lamps)



Picture 26

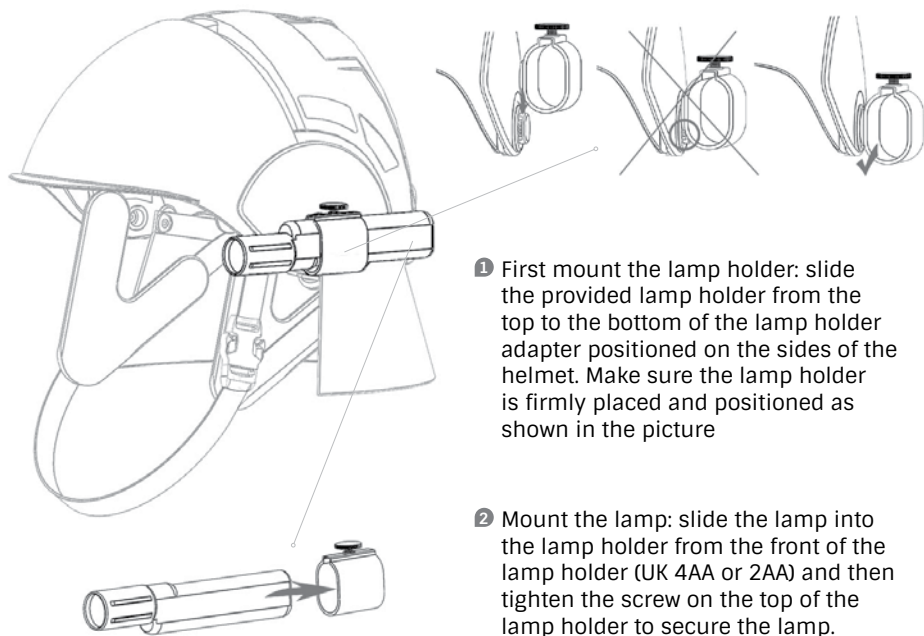


Picture 27

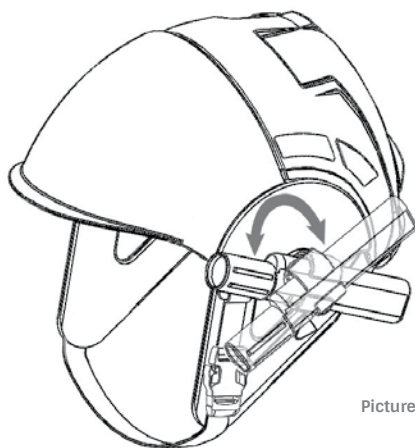
- 3 To adjust the lamp angle, turn the lamp clockwise or counter clockwise

PAB Fire Compact

Type II lamp holder (tightening lamp holder)



Picture 28



Picture 29

MAINTENANCE AND CLEANING

The length of the useable life of this helmet will be affected by the types of materials used in its construction and the environments in which the helmet is used and stored. Recommendations on this topic should be sought from the manufacturer.

The helmet absorbs the energy of a blow by partial destruction of, or damage to, the helmet. Even though such damage may not be readily apparent, any helmet subjected to severe impact should be replaced.

An unusual event may require to replace a product after only one use. This depends on the type and intensity of use, or the environment in which it is used: aggressive environments, extreme temperatures, contact with chemicals, strong impacts...

For more details about maintenance and spare parts replacement please contact PAB Akrapović.



Warning:

Do not drop the helmet. Prevent impacts to the helmet that could damage (scratch or cause cracks) the face shield.

Check regularly the helmet for cracks on the parts in contact with the skin. These damages could cause discomfort.

Do not apply cleaning products on a hydrocarbon base, solvents, paint or stickers to the helmet or visors to prevent damage to the materials of the helmet.

Storage

To extend the lifetime of this product to the maximum:

- Store the helmet in its storage bag and/or in a closed cabinet to prevent extended exposure to cold, heat, humidity, light, exhaust fumes,...
- After use and before storing clean the helmet (the shell and all other components).

Checks after use

After each use inspect the helmet carefully:

- Check all fixing points: all the components shall be in place and fixed firmly
- Check for any visible cracks or fractures – none shall be evident
- No evident wear
- Check the helmet fit is always correct



Attention:

During the inspection pay special attention to the components listed below that are critical for the safety of the product and replace the product or the component, if any of the described conditions is evident:

- suspension – check for cut or broken stitches, abrasions on straps, discoloration
- shell – check for any cracks, or deep scratches, deformations from mechanical impact or exposure to heat or flames
- face shield – check for any cracks, scratches, bubbles, deformations and if does not stay in position
- chin strap – check for any missing or broken parts, discoloration, cut or broken stitches, worn out straps, broken or missing release buckle
- head band – check if cracked or broken, check if ratchet system does not work properly
- impact liner – check out for any cracks or deformation

In case of evident damage (impacts, broken parts, significant scratches, torn straps or paddings, coating removal on the shell or visors, missing components, etc.) identified during the regular checks, the helmet shall be sent to a PAB approved maintenance centre for complete control processing.

Only original PAB parts are authorised for replacement and ensure the performance of the helmet. Replace any damaged parts only with original PAB parts.

Periodic checks

Pab Akrapović recommends to execute a complete and detailed inspection of the helmet every two (2) years or more often (e.g. every year) in case of intensive use of the helmet. Execute a detailed check of the helmet every time the helmet has been exposed to severe conditions (direct flame contact, very high temperatures, mechanical impact, contact with chemicals or pouring metal).

Cleaning and care

PLASTIC COMPONENTS: use soapy water and a soft cloth. Do not use detergents, solvent based products or abrasive materials.






FACE SHIELD AND INTERNAL GOGGLES: use soapy water and a soft cloth. Do not use detergents, solvent based products or abrasive materials.

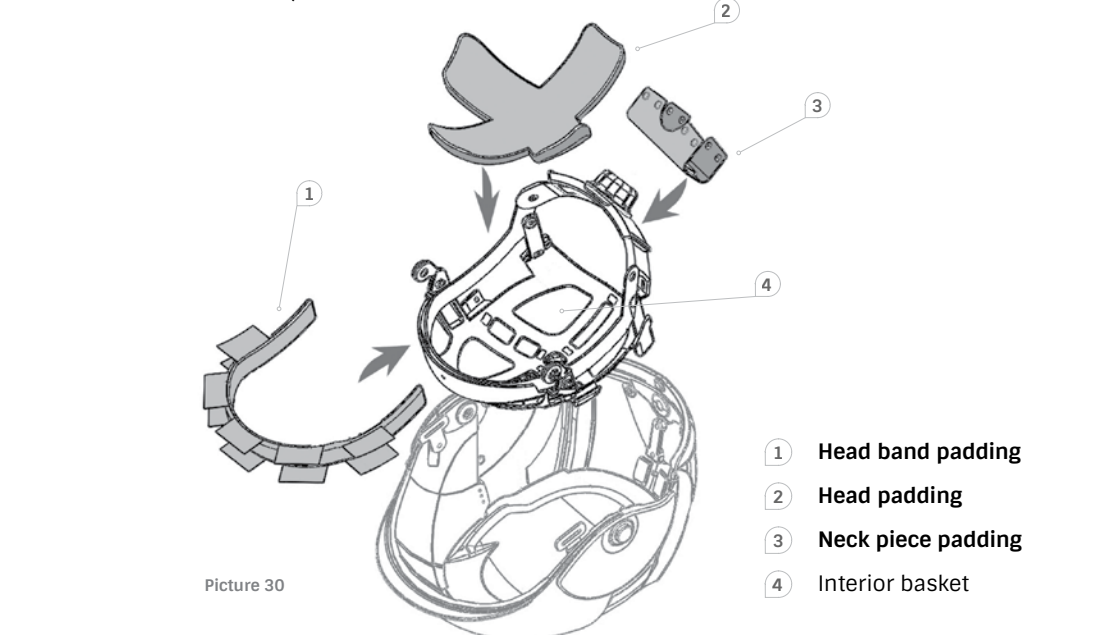
CHIN STRAPS: use soapy water and a soft cloth. ☒

HEAD PADDING, HEAD BAND PADDING, NECK PIECE: you can remove these parts for an easier cleaning (see picture).

Please do not remove the interior basket from the shell!

Open the Velcro fasteners and clean the individual pieces:






- Leather head band padding and neck piece: use soapy water and a soft cloth 
- Head padding: hand-wash in cold water and a mild detergent. Rinse with water and let dry.    



Picture 30 4 Interior basket

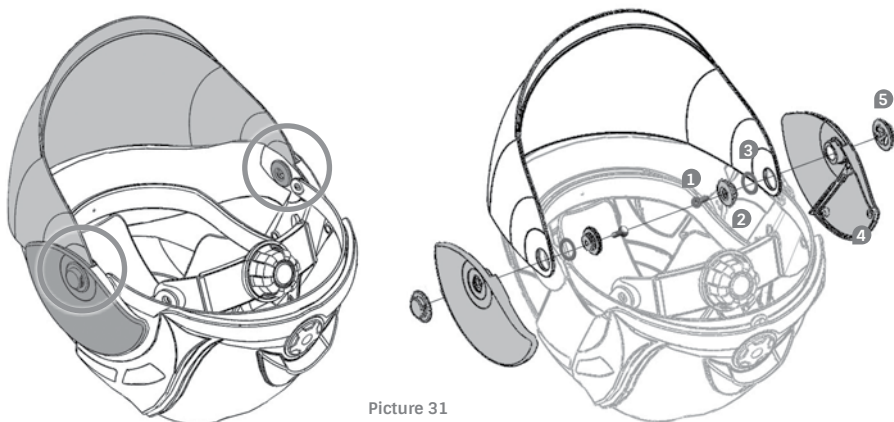
Note: do not remove the interior basket from the shell!

NECK PROTECTORS:

- Neck protectors made of Nomex, meta-aramid, wool: cleaning at 30°C with a gentle detergent    
- Leather or aluminised neck protectors: cleaning at 30°C with water using a sponge 

FACE SHIELD REPLACEMENT

In case your face shield needs to be replaced, please follow the following instructions:



Picture 31

- 1** Using a cross-tip screwdriver loosen the 2 screws on the inner sides of the shell (see Picture 31).
- 2** Carefully disassemble all the parts: screw (1), inner plastic protector (2), gasket (3), side covers (4), lamp holder adapters (5), and remove the old face shield from its position.
- 3** Place the new face shield on the side holes and carefully reassemble all the parts: screw (1), inner plastic protector (2), gasket (3), side covers (4) and lamp holder adapters (5), to their original positions. Secure the visor and all the parts with a crosstip screwdriver.
- 4** Before wearing the helmet, check if the face shield is properly fixed – the face shield should slide smoothly between standby and use positions.

For more information, please check regularly our website www.pab.hr or contact directly PAB Akrapović d.o.o.

TRANSPORT

HELMET

Before transport put the face shield and/or the goggles in standby position and place the helmet in a PAB protective textile bag.

FACE SHIELDS AND GOGGLES AS SPARE PART

The face shields and goggles shall be stored and transported in their plastic bags until mounted on the helmet.

SERVICE LIFE AND DISCARD

PAB helmets do not have a limited service life expectancy as it is variable and strongly depends on the conditions of use, maintenance and storage of the product. PAB helmets are very resistant to ageing, with a minimal expected service life of 10 years, but only if provided that they are used, stored, maintained and serviced properly. Exposure to extreme temperatures, strong impacts, corrosive chemicals, flames or aggressive environments have a significant impact on the service life of the product. Inspect and clean carefully the helmet after each use and replace any damaged parts or products. To ensure a lifetime as long as possible please follow the instructions, information and recommendations stated in this user manual.

When the helmet or its parts become obsolete or irreparably damaged, the helmet and its parts shall be treated as ordinary non-hazardous industrial waste according to local regulations.

For further information, please contact PAB Akrapović.

PAB Fire Compact



EU DECLARATION OF CONFORMITY

1. Personal Protective Equipment (PPE):

Helmet PAB Fire Compact

2. Name and address of the manufacturer:

PAB Akrapović d.o.o.

Most 26

52420 Buzet

Croatia

3. This declaration of conformity is issued under the sole responsibility of the manufacturer:

PAB Akrapović d.o.o., Most 26, 52420 Buzet, Croatia

4. Object of the declaration:

Helmet model PAB Fire Compact for structural firefighting optionally available with visor model PAB Fire Compact and integrated goggles model Goggle 04

5. The object of the declaration described in point 4 is in conformity with the relevant Union harmonisation legislation:

Regulation (EU) 2016/425, Annex II of the European Parliament and of the Council of the European Union of 9 March 2016 on personal protective equipment

6. References to the relevant standards used:

EN 443:208

7. The notified body CSI S.p.A., Viale Lombardia 20/B, 20021, Bollate (MI), Italy, notified body number 0497 performed the Category III EU type-examination (Module B) and issued the EU type-examination certificate DPI/0497/1073

8. The PPE is subject to the conformity assessment procedure based on internal production control plus supervised product checks at random intervals (Module C2) under surveillance of the notified body CSI S.p.A., notified body number 0497.

Signed for and on behalf of:

PAB Akrapović d.o.o. in Buzet

Miha Akrapović, General Manager of PAB Akrapović d.o.o.



PAB Akrapović d.o.o.
Most 26,
52420 Buzet, Croatia (4)

PAB Akrapović d.o.o.

Most 26, 52420 Buzet, Croatia

T +385 52 662 662 | F +385 52 662 254 | info@pab.hr | www.pab.hr | VAT No. HR36705813625

BANK COORDINATES:

Bank: ISTARSKA KREDITNA BANKA d.d. UMAG | Swift code: ISKBHR 2X | IBAN: HR2623800051146004450



PAB Akrapović

Your PAB Akrapović partner:

PAB Akrapović

Most 26, HR-52420 Buzet, Croatia

P +385 52 662 662

info@pab.hr | www.pab.hr