

Technical Datasheet

for Personal Protective Equipment: Visor made of Polycarbonate with gold-coating

<u>Articleno.:</u> GFKVI001-6				<u>Description:</u> Visor made of Polycarbonate, green, 500x250x1mm, sealed gold-coating for mounting on universal visor carrier	
EN Norms:				CE-Certificate:	
EN 166	EN 167	EN 168	EN 171	C1844UHL/R9	
Technical features					
Weight: 135g					
<ul style="list-style-type: none">• Visor made of high-quality Polycarbonate• high temperature resistance from ca. - 50°C up to +135°C• excellent optical quality (optical class 1)				<ul style="list-style-type: none">• high notched bar strength• good UV-protection• up to 94% of the radiant heat is reflected by the gold-layer (IR-shade 4-5)• additional protection of the gold layer by a hard coating	
Used materials:					
Visor:		Polycarbonate 1mm			
Eyelets:		Iron nickel-plated			
Gold:		Au, 4N (99,99% purity)			
Fields of use:					
<ul style="list-style-type: none">• heavy industry: esp. workplaces with high radiant heat in the steel industry or in foundries				<ul style="list-style-type: none">• protection against mechanical impact	
Marking:		4-5 UHL 1 BT 9 CE 0196 on the front of the visor, upper right side			

Warning!

The safety officer should be contacted to ensure an adequate protection at work.

Plastic can cause an allergic reaction of the skin of sensitive persons.

Eye-protection devices against particles with high velocity could transmit the impact energy, if the device is worn together with standard glasses.

If the eye-protection device is composed of two different devices, only the protection of the device with the lower protection class is given.

Notice relating to the mutual compability of the marking (DIN EN 166 note d, e and f in table 12). If protection against mechanical impacts with high velocity in extreme temperatures is needed, the used eye protection device has to be marked with the letter T after the letter for the impact protection, i.e. BT. Otherwise the eye protection device can only be used against impacts with high velocity in room temperature.

Manufacturer:

RUDOLF UHLEN GmbH

Herstellung von Arbeitsschutzartikeln

Am Höfgen 13 – 42781 Haan

Telephone: +49/2129/1444

Telefax: +49/2129/59980

Internet: www.aschua-uhlen.de

E-Mail: info@aschua-uhlen.de

General manager: Volker Fiedler
Steffen Fiedler

Trade register no.: HRB 17088 Register court Wuppertal

Articlelist

Visor carriers standard

GFKHH001 GFKHH001-1
GFKHH001-3 GFKHH002
GFKHH002-3 GFKHH003
GFKHH003-1 GFKHH003-3
GFKHH003-6 GFKHH003-8
GFKHH004 GFKHH005-2
GFKHH005-4 GFKHH006
GFKHH006-3 GFKHH008
GFKHH008-3 GFKHH009
GFKHH011 GFKHH011-3
GFKHH012 GFKHH012-3
GFKHH015 GFKHH015-3
GFKHH015-3 TATA
GFKTP002

Visor carriers KGS

GFKHH002 KGS
GFKHH002 KGS FLEX
GFKHH003 KGS
GFKHH008 KGS
GFKHH011-3 KGS
GFKHH011-1-3 KGS
GFKHH015 KGS

Face shields PC

GFKVI002 GFKVI002-1
GFKVI002-3 GFKVI002-4
GFKVI002-5 GFKVI002-7
GFKVI002-9 GFKVI016-2
GFKVI016-3 GFKVI045
GFKVI102 GFKVI102-5
GFKVI102-9 GFKVI202
GFKVI202-2 GFKVI204
GFKVI207

Face shields CA

GFKVI007 GFKVI007-4
GFKVI007-7 GFKVI007-9
GFKVI107 GFKVI107-9
GFKVI200 GFKVI200-2

Face shields TA

GFKVI005

Face shields PPSU

GFKVI513

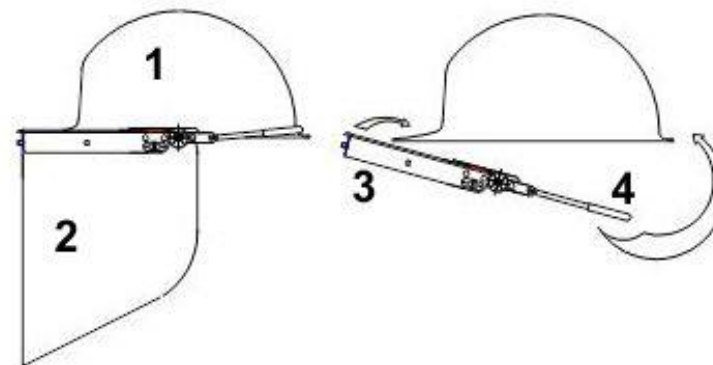
Face shields PC

gold-coated

GFKVI001 GFKVI001-1
GFKVI001-2 GFKVI001-3
GFKVI001-6 GFKVI001-9
GFKVI210 GFKVI210-1
GFKVI210-2 GFKVI210-3
GFKVI210-6 GFKVI210-9

User manual

Aluminium-visor carrier with face shield



1 Helmet
2 Face shield

3 Visor carrier
4 Tension spring



Documentno.:
01.07.2021 / R1

Description

Aluminium-visor carrier

- The visor carrier is the link between the hard hat and the safety visor.
- It is made out of high quality aluminium.
- Due to a powerful tension spring the visor carrier has a secure fit on the hard hat.
- The universal-visor carrier fits all standard hard hats. Different models can be manufactured for special hard hat shapes
- The face shields are attached with a rotating fastener or with a clip fastener.
- The face shields can be lifted into 4 positions.

Face shield

- The face shields are produced in various models. They differ in thickness, shape, shade or material.
- For IR-protection the face shields can be gold-coated.
- On the upper edge the face shields are punched to be attached to the visor carrier.
- The face shields fit both the Rudolf Uhlen visor carriers as well as the Rudolf Uhlen headgear.

Manual

- To attach the visor carrier to the hard hat, the U-profile of the carrier is slid on the brim of the hard hat.
- That followed the tension spring is pulled over the back of the hard hat. Thereby the visor carrier cannot slip off the hard hat.
- Initially the face shield is attached with one of its oval holes on the rotary fastener and fixed by turning the fastener (alternatively it is shoved under the clip fastener).
- That followed the visor is pulled over the visor carrier's positioning pins up to the second rotating fastener / clip fastener. There, it is also fixed by turning the fastener.

Storage

Personal protective equipment should be stored in dry rooms. Especially components made of plastics should not be exposed to intense solar radiation.

Cleaning / Disinfection

The universal-visor carriers and the face-shields can be cleaned with water and standard detergents as well as mild disinfectants. However, the face shields should be dried with compressed air to avoid scratches. Especially the durability of the gold-coated

visors is reduced, when the surface is damaged.

Safety checks

Before using the face shield the user should do a safety check. Damaged or scratched face shields or other damaged parts have to be replaced.

**Maintenance / repairs
To be checked on a regular basis:**

- Attachment and fit of the visor carrier on the hard hat. Also the tension spring should be checked.
- Folding mechanism of the visor carrier. If necessary the safety nut has to be tightened.
- Attachment of the face shield to the visor carrier. Especially the rotating fasteners have to be checked.
- The face shield has to be checked for its transparency and other damages.

Repairs should only be done with the original parts of the manufacturer.

Decay time / aging

All used materials are exposed to environmental impacts like UV-radiation, acid rain and various other impacts. Therefore especially the personal protective equipment made of thermoplastic plastics should be replaced after 3 years the latest.

Replacement indicators for the visor carriers are mainly the period of use and its overall condition.

Materials used:

Aluminium-visor carrier

- Aluminium profiles
- Tension spring
- Raster made of steel
- PVC-tube
- Rotating fastener or
- Clip fastener

Face shield (varies with the model)

- Polycarbonate 1mm
- Cellulose-Acetate 1,15mm
- Triacetate 1,4mm
- Polyphenylsulfone 2mm
- Iron eyelets
- Gold-coating
- Hard-coating

Marking

Aluminium visor carrier
UHL 166 BT CE

PC-/PPSU-face shield
UHL 1 BT 9 CE

CA-face shield
UHL 1 FT CE

TA-face shield
UHL 1 FT 9 CE

PC-face shield gold-coated
2-5 UHL 1 BT CE
4-4 UHL 1 BT 9 CE 0196
4-5 UHL 1 BT 9 CE 0196
4-6 UHL 1 BT 9 CE 0196

The articles are tested according to
EN 166:2001
EN 170:2002
EN 171:2002

Explanation of the marking:

2-5 = UV-shade
4-4/4-5/= IR-shade
4-6
UHL = Manufacturer: Rudolf Uhlen GmbH
166 = EN standard
1 = optical class
F = mechanical impact with low energy (45 m/s)
B = mechanical impact with medium energy (120 m/s)
T = extr. temperatures
9 = molten metal and hot solids
CE = CE sign
0196 = notified body

DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Alboinstr. 56
12103 Berlin, Germany
Notified Body: Nr. 0196

General remarks

The face shield should only be used with the correct visor carrier (all Rudolf Uhlen GmbH models). The visor carrier should fit the hard hat properly. In case of doubt users should contact Rudolf Uhlen GmbH.

When approaching the danger zone the face shield has to be flipped down.

The face shields provide protection against mechanical impacts of class „F“ (45m/s) resp. „B“ (120m/s). These

risks were tested under standard conditions.

The user should employ the protective shade according to the work environment. The „Leitfaden für Auswahl und Anwendung“ of DIN EN 171 gives direction for the right choice.

IR-shade	Temp. in °C
4-4	1290
4-5	1390
4-6	1510

For gold-coated face shields of Rudolf Uhlen applies:
The visor is made of polycarbonate. This plastic starts melting at a temperature of 150°C. Although the gold-coating reflects a major part of the radiant heat, this melting temperature will eventually be reached, dependent on the temperature of the heat source as well as the time in front of and the distance to the heat source. At this point at the latest, the operations should be stopped to maintain the full functioning of the face shield.

EU Type-Examination Certificate

Holder	Rudolf Uhlen GmbH Am Höfgen 13 42781 Haan GERMANY
Registration No.	C1844UHL/R9
Product	Visor for infrared protection
Type, Model	GFKVI001-1 / GFKVI020-1 / GFKVI001-6 / GFKVI210-1 / GFKVI210-6 / GFKVI020-9 / GFKVI020-10 / GFKVI020-11
Testing basis	DIN EN 166:2002-04 DIN EN 171:2002-08
Test reports/Test marks	10903-PZA-13, 12411-PZA-14, 1068-PZA-15, 10932-PZA-16, 10952-PZA-17, 10954-PZA-17, 10906-PZA-13, 12411-PZA-14, 1068-PZA-15, 10934-PZA-16, 10872-PZA-18, 14016-PZA-19, 14001-PZA-20, 14002-PZA-20, 14003-PZA-20, 10432-PZA-21, 10491-PZA-22, 10981-PZA-23
Marking of the product	Detailed marking see annex
Validity period	2022-09-15 to 2027-09-13
Conformity	DIN CERTCO confirms that the prototype complies with the essential health and safety requirements according to the Annex II of Regulation (EU) 2016/425 on personal protective equipment. This assessment was based on the test samples submitted by the manufacturer or authorised representative, the technical documentation and the test report of the test laboratory.

Any previous versions of this EU Type-Examination Certificate hereby cease to be valid.

Please see the annex for further information.

2022-09-15
Dipl.-Phys. Carlo Seiser
Notified Body 0196



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Certificate	C1844UHL/R9 dated 2022-09-15
Manufacturer's Identification	UHL
Marking of the product	<p>GFKVI001-1 / GFKVI020-1: Surface power 0 dpt to 7.0 dpt: 4-5 UHL 1 BT 9 CE 0196 Surface power > 7.0 dpt: 4-5 UHL 2 BT 9 CE 0196</p> <p>GFKVI001-6 / GFKVI210-1 / GFKVI210-6 / GFKVI020-9 / GFKVI020-10 / GFKVI020-11: 4-5 UHL 1 BT 9 CE 0196</p>
Product specification	<p>Mechanical strength: protection against high-speed particles at extremes of temperature BT (120 m/s) Optical class: 1 (surface power < 7,5 dpt) Shade number: 4-5 Protection against molten metals and hot solids: 9</p> <p>Material: GFKVI001-1 / GFKVI001-6 / GFKVI020-1 / GFKVI210-1 / GFKVI210-6: PC GFKVI020-9 / GFKVI020-10 / GFKVI020-11: PC, aluminium Colour: Green, gold coated Centre thickness: 1.0 mm</p>
Additional product information	<p>GFKVI001 / GFKVI001-6: 500 mm x 250 mm GFKVI020-1: 260 mm x 150 mm (for metal frame BFKFE003) GFKVI210-1 / GFKVI210-6: 450 mm x 220 mm (half round shaped) GFKVI020-9: 250 mm x 150 mm (with aluminium edge reinforcement and button lower part) GFKVI020-10: 300 mm x 160 mm (with aluminium edge reinforcement and button lower part) GFKVI020-11: 250 mm x 200 mm (with aluminium edge reinforcement and button lower part)</p> <p>GFKVI001-6: as Standard, 3M</p>
Regulations/ Liabilities	<p>This EU Type-Examination Certificate is the property of DIN CERTCO and may be withdrawn if the conditions on which its issue was based are no longer met.</p> <p>The information leaflet (instructions for use) for the specified eye protection product must be written in the official language of the country of destination and</p>



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Certificate

C1844UHL/R9 dated 2022-09-15

include, among other things, the following details of the Notified Body:

DIN CERTCO Gesellschaft für
Konformitätsbewertung mbH
Alboinstraße 56
12103 BERLIN
GERMANY

Identification number of the Notified Body: 0196

As far as possible, the product must be marked with a type, batch or serial number or other element allowing its identification.

As far as possible, the product must be marked with the name and postal address of the manufacturer or, if the manufacturer is not based in the European Economic Area, the name and contact address of an authorised representative or importer based in the European Economic Area.

The product or its packaging must be indelibly and unambiguously marked with the month and year of manufacture and/or the month and year of obsolescence.

The product must be marked with the identification number of the Notified Body monitoring the product in accordance with Annex VII (Module C2) or VII (Module D) of Regulation (EU) 2016/425.

This EU Type-Examination Certificate shall only be used in conjunction with one of the conformity assessment procedures referred to Regulation (EU) 2016/425 Article 19 in point c.

All changes to the product, the technical documents or to the quality assurance system must be notified to DIN CERTCO in writing.

The General Terms and Conditions of DIN CERTCO apply.



EU-Baumusterprüfbescheinigung

Inhaber	Rudolf Uhlen GmbH Am Höfgen 13 42781 Haan DEUTSCHLAND
Registernummer	C5472UHL/R2
Produkt	Ultraviolettschutzfilter
Typ, Modell	GFKVI001-6
Prüfgrundlage(n)	DIN EN 166:2002-04 DIN EN 170:2003-01
Prüfberichte/ Prüfzeichen	12901-PZA-16, 10541-PZA-19, 11061-PZA-21
Kennzeichnung des Produktes	Detaillierte Kennzeichnung siehe Anhang
Gültigkeitszeitraum	2021-10-13 bis 2026-10-12
Konformität	DIN CERTCO bestätigt die Übereinstimmung des Baumusters mit den geltenden grundlegenden Gesundheitsschutz- und Sicherheitsanforderungen nach Anhang II der Verordnung (EU) 2016/425 für persönliche Schutzausrüstung. Die Bewertung beruht auf den vom Hersteller oder vom bevollmächtigten Vertreter eingereichten Prüfmustern, den technischen Unterlagen, sowie dem Prüfbericht des Prüflabors.

Eventuell vorhandene Vorgängerversionen dieser EU-Baumusterprüfbescheinigung verlieren hiermit ihre Gültigkeit.

Weitere Informationen siehe Anhang.

2021-04-29

Dipl.-Wi.-Ing. (FH) Sören Scholz
Benannte Stelle 0196

S. Sch



ANHANG

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Zertifikat	C5472UHL/R2 von 2021-04-29
Herstellerkennzeichen	UHL
Kennzeichnung des Produktes	2-5 UHL 1 BT CE
Produktspezifikationen	<p>Grad der mechanischen Festigkeit: Schutz gegen Teilchen hoher Geschwindigkeit bei extremen Temperaturen BT (120 m/s) Optische Klasse: 1 Schutzstufe: 2-5</p> <p>Material: PC Farbe: Grün, goldbeschichtet Mittendicke: 1,0 mm Abmessungen: 500 x 250 mm</p>
Bestimmungen/Pflichten	<p>Diese EU-Baumusterprüfbescheinigung ist Eigentum von DIN CERTCO und kann zurückgezogen werden, sofern die Bedingungen, die zur ihrer Ausstellung geführt haben, nicht mehr erfüllt sind.</p> <p>Die Informationsbroschüre (Gebrauchsanweisung) zum genannten Augenschutzprodukt muss in den Amtssprachen des Bestimmungslandes verfasst sein und unter anderem folgende Angaben zur notifizierten Stelle enthalten:</p> <p>DIN CERTCO Gesellschaft für Konformitätsbewertung mbH Alboinstraße 56 12103 BERLIN DEUTSCHLAND Kennnummer der notifizierten Stelle: 0196</p> <p>Auf dem Produkt muss, soweit möglich, eine Typen-, Chargen- oder Seriennummer oder ein anderes Kennzeichen zur Identifikation angebracht sein.</p> <p>Auf dem Produkt muss, soweit möglich, der Name und die Postanschrift des Herstellers oder, sofern dieser nicht im Europäischen Wirtschaftsraum ansässig ist, der Name und die Postanschrift eines im Europäischen Wirtschaftsraumes ansässigen bevollmächtigten Vertreters oder Einführers angebracht sein.</p> <p>Auf dem Produkt und dessen Verpackung muss Monat und Jahr der Herstellung und/oder Monat und Jahr des Verfalls unauslöschlich und eindeutig angebracht sein.</p>



ANHANG

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Zertifikat

C5472UHL/R2 von 2021-04-29

Es ist nicht gestattet, das Produkt mit der Kennnummer 0196 zu kennzeichnen.

Jede Änderung am Produkt, den technischen Unterlagen oder dem Qualitätssicherungssystem muss DIN CERTCO schriftlich mitgeteilt werden.

Es gelten die Allgemeinen Geschäftsbedingungen von DIN CERTCO.



EU-DECLARATION OF CONFORMITY (2018.R4)

1. PPE: **GFKVI001-6**

2. Manufacturer: **Rudolf Uhlen GmbH
Am Höfgen 13
42781 Haan**



2. This declaration of conformity is issued under the sole responsibility of the manufacturer
Rudolf Uhlen GmbH.

4. Object of the declaration:

Visor made of PC, green, 500x250x1mm, sealed gold-coating,
IR-shade 4-5

5. The object of the declaration described in point 4 is in conformity with the relevant Union harmonisation legislation: guideline 2001/95/EG and regulation (EU) 2016/425.

6. References to the relevant harmonised standards used, including the date of the standard, or references to the other technical specifications, including the date of the specification, in relation to which conformity is declared: EN 166:2001, EN 170:2002 and EN 171:2002.

7. The notified body DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Alboinstr. 56, 12103 Berlin (0196) performed the EU type-examination (Module B) and issued the EU type-examination certificate **C1844UHL/R9** and **C5472UHL/R2**.

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 DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Alboinstr. 56, 12103 Berlin (0196).

9. Additional information:

Signed for and on behalf of:
Rudolf Uhlen GmbH

Haan, 15. September 2022:



Steffen Fiedler
-General Manager-