

## Technical Datasheet

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

<u>Articleno.:</u> GFKVI001-9				<u>Description:</u> Visor made of Polycarbonate, 500x250x1mm, green, sealed, gold-coated, shade 4-6	
<u>EN Norms:</u>				<u>CE-Certificate:</u>	
EN 166	EN 167	EN 168	EN 171	C6502UHL/R1	
Technical features					
Weight: 135g					
<ul style="list-style-type: none"> <li>• Visor made of high-quality Polycarbonate</li> <li>• high temperature resistance from ca. - 50°C up to +135°C</li> <li>• excellent optical quality (optical class 1)</li> </ul>				<ul style="list-style-type: none"> <li>• high notched bar strength</li> <li>• good UV-protection</li> <li>• up to 94% of the radiant heat is reflected by the gold-layer (IR-shade 4-6)</li> <li>• additional protection of the gold layer by a hard coating</li> </ul>	
<u>Used materials:</u>					
<u>Visor:</u>		Polycarbonate 1mm			
<u>Eyelets:</u>		Iron nickel-plated			
<u>Gold:</u>		Au, 4N (99,99% purity)			
<u>Fields of use:</u>					
<ul style="list-style-type: none"> <li>• heavy industry: esp. workplaces with high radiant heat in the steel industry or in foundries</li> </ul>				<ul style="list-style-type: none"> <li>• protection against mechanical impact</li> </ul>	
<u>Marking:</u>					
4-6 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

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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

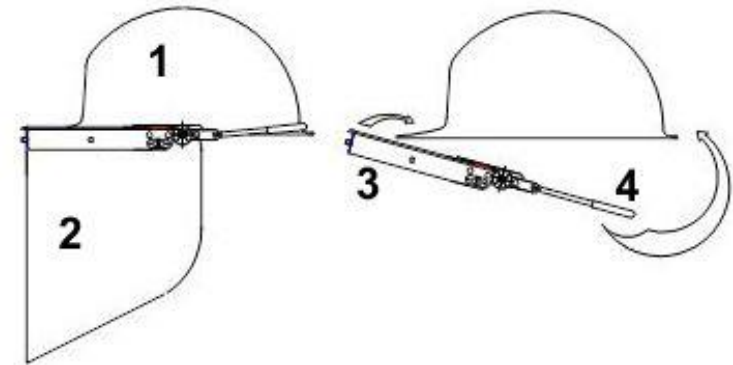
GFKVI513

## 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-Baumusterprüfbescheinigung

<b>Inhaber</b>	<b>Rudolf Uhlen GmbH</b> <b>Am Höfgen 13</b> <b>42781 Haan</b> <b>DEUTSCHLAND</b>
<b>Registernummer</b>	C6502UHL/R1
<b>Produkt</b>	Infrarotschutzschild
<b>Typ, Modell</b>	GFKVI001-3 / GFKVI001-9 / GFKVI210-3 / GFKVI210-9 / GFKVI020-18
<b>Prüfgrundlage(n)</b>	DIN EN 166:2002-04 DIN EN 171:2002-08
<b>Prüfberichte/ Prüfzeichen</b>	14011-PZA-19, 14012-PZA-19, 14013-PZA-19, 14014-PZA-19, 10435-PZA-21, 10492-PZA-22
<b>Kennzeichnung des Produktes</b>	Detaillierte Kennzeichnung siehe Anhang
<b>Gültigkeitszeitraum</b>	2022-09-15 bis 2025-09-15
<b>Konformität</b>	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.

2022-09-15  
Dipl.-Phys. Carlo Seiser  
Benannte Stelle 0196



# ANHANG

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<b>Zertifikat</b>	C6502UHL/R1 von 2022-09-15
<b>Herstellerkennzeichen</b>	UHL
<b>Kennzeichnung des Produktes</b>	4-6 UHL 1 BT 9 CE 0196
<b>Produktspezifikationen</b>	<p>Grad der mechanischen Festigkeit: Schutz gegen Teilchen hoher Geschwindigkeit bei extremen Temperaturen BT (120 m/s) Optische Klasse: 1 Schutzstufe: 4-6 Schutz gegen Schmelzmetall und heiße Festkörper: 9</p> <p>Material: PC Farbe: Grün, goldbeschichtet Mittendicke: 1,0 mm</p>
<b>Weitere Produktinformationen</b>	<p>GFKVI001-3 / GFKVI001-9: 500 mm x 250 mm GFKVI210-3 / GFKVI210-9: 450 mm x 220 mm (korbförmig) GFKVI020-18: 260 mm x 150 mm</p>
<b>Bestimmungen/Pflichten</b>	<p>Diese EU-Baumusterprüfbescheinigung ist Eigentum von DIN CERTCO und kann zurückgezogen werden, wenn 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 Wirtschaftsraum ansässigen</p>



# ANHANG

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## Zertifikat

C6502UHL/R1 von 2022-09-15

bevollmächtigten Vertreters oder Einführers angebracht sein.

Auf dem Produkt und dessen Verpackung muss Monat und Jahr der Herstellung und/oder Monat und Jahr des Verfalls unauslöschlich und eindeutig angebracht sein.

Das Produkt muss mit der Kennnummer der notifizierten Stelle gekennzeichnet werden, welche die Überwachung des Produktes gemäß Anhang VII (Modul C2) oder VIII (Modul D) der Verordnung (EU) 2016/425 durchführt.

Diese EU-Baumusterprüfbescheinigung darf nur in Verbindung mit einem der Konformitätsbewertungsverfahren gemäß der Verordnung (EU) 2016/425 Artikel 19 Buchstabe c verwendet werden.

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

Es gelten die Allgemeinen Geschäftsbedingungen von DIN CERTCO.



Rudolf Uhlen GmbH - Am Höfgen 13 - 42781 Haan

## EU-DECLARATION OF CONFORMITY (2018.R4)

1. PPE: **GFKVI001-9**

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 4-6

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 166:2002-04 and EN 171:2002-08.

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 **C6502UHL/R1**.

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, 16. September 2022:



Steffen Fiedler  
-General Manager-