

## Technical Datasheet

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

Article-no.: GFKVI020-1				Description: Visor made of Polycarbonate, green, 260x150x1mm, gold coating, suitable for alu-visorframe BFKFE003
EN Norms:				CE-Certificate:
EN 166	EN 167	EN 168	EN 171	C1844UHL/R9
Technical features				
Weight: 110g				
<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 4-5)</li></ul>
Used materials:				
Visor:				Polycarbonate clear 1mm
Eyelets:				Iron nickel-plated
Gold:				Au, 4N (99,99% purity)
Fields of use:				
<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>
Marking:				4-5 UHL 1 BT 9 CE 0196 on the front of the visor, upper right side

# User Manual

## PC-Visors for aluminium window frames



### Description

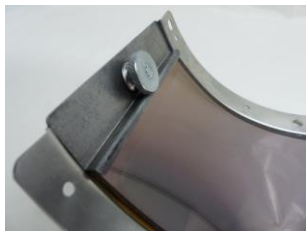
#### PC-visors for aluminium window frames

- The PC-visors are made of 1mm polycarbonate.
- They are available in 2 different sizes:
  - 220x100mm
  - 260x150mm
- Gold-coated PC-visors can be used as infrared filters.
- They are available with the protective shades 4-4, 4-5 and 4-6.
- The curved laminated visors are fixed with an aluminium hinge with the aluminium frame.



### Manual

- For changing the PC-visor the movable hinge can stay in the aluminium-frame.
- The flexible PC-visor can be insert into the aluminium frame from the back-side.
- The PC-visor is pushed to front until it fits in the aluminium frame.
- If necessary, the nut from the movable hinge has to be adjusted



### Storage

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

### Cleaning

To avoid scratching, the PC-visors should only be cleaned with thinner or compressed air.

### Disinfection

The PC-visors can be disinfected with a mild disinfectant.

### Safety checks

Before using the PC-visors the user should do a safety check.

Damaged or scratched face shields or other damaged parts have to be replaced

### Maintenance/repairs

Maintenance has to be conducted on a regular basis.

### To be checked in particular:

- Attachment and fit of the PC-visors.
- Completeness of the removable hinge.
- Rivets of the aluminium frame.

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

### Decay time/aging

Because of the strong exposure in front of high temperature sources no general decay time can be given. It depends on the operating time and the wearing. However, PPE made of thermoplastics should be replaced after 3 years the latest.

### Transport packaging

The PC-visors are shrink-wrapped in PE-film and are packed in a box.

### Marking

#### PC-visor transparent

UHL 1 BT 9 CE

#### PC-visor gold-coated

4-4 UHL 1 BT 9 CE 0196

4-5 UHL 1 BT 9 CE 0196

4-6 UHL 1 BT 9 CE 0196

### Explanation of marking:

4-4/4-5/= IR-shade

4-6

UHL = Manufacturer  
Rudolf Uhlen GmbH  
1 = optical class  
B = mechanical impact with medium Energy  
T = extr. temperatures  
9 = molten metal and hot solids  
CE = CE sign  
0196 = notified body

The PC-visors are tested according to:  
EN 166:2001  
EN 171: 2002

DIN CERTCO Gesellschaft  
für Konformitätsbewertung  
mbH  
Alboinstr. 56  
12103 Berlin  
Notified Body: No. 0196

### General information

The PC-visors can only be used with the suitable aluminium frame.

When approaching the danger zone, the protective hood has to be worn.

The PC-visors provide protection against mechanical impacts class "B" (120m/s). These impacts have been tested under standard conditions.

The use should chose the appropriate protective shade (see EN 171). For the gold-coated visors applies:

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

The visor is made of polycarbonate. This plastic starts melting at a temperature of 150°C. The gold-coating reflects a large part of the radiant heat, but after some time the melting point is reached (depending on the core temperature, the distance and the time). Then it is time to stop the work to keep the PC-visor in working condition.

### Warning!

Follow the instructions of the safety officer to work safely!

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 (s. 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.

### This manual refers to the following articles:

#### PC-visor transparent

GFKVI006 GFKVI019

#### PC-visor gold-coated

GFKVI020 GFKVI020-1

GFKVI020-18

GFKVI021 GFKVI021-1

#### Aluminium window frame

BFKFE001 BFKFE003

Dokumentno.:

04.08.2020 / R4

### Manufacturer:

Rudolf Uhlen GmbH  
Am Höfgen 13  
42781 Haan

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Web: www.aschua-uhlen.de

Mail: info@aschua-uhlen.de

General manager:

Volker Fiedler

Steffen Fiedler

Comm.registerno.:

HRB 17088

Register court Wuppertal

# EU Type-Examination Certificate

<b>Holder</b>	<b>Rudolf Uhlen GmbH Am Höfgen 13 42781 Haan GERMANY</b>
<b>Registration No.</b>	C1844UHL/R9
<b>Product</b>	Visor for infrared protection
<b>Type, Model</b>	GFKVI001-1 / GFKVI020-1 / GFKVI001-6 / GFKVI210-1 / GFKVI210-6 / GFKVI020-9 / GFKVI020-10 / GFKVI020-11
<b>Testing basis</b>	DIN EN 166:2002-04 DIN EN 171:2002-08
<b>Test reports/Test marks</b>	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
<b>Marking of the product</b>	Detailed marking see annex
<b>Validity period</b>	2022-09-15 to 2027-09-13
<b>Conformity</b>	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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<b>Certificate</b>	C1844UHL/R9 dated 2022-09-15
<b>Manufacturer's Identification</b>	UHL
<b>Marking of the product</b>	<p>GFKVI001-1 / GFKVI020-1: Surface power 0 dpt to 7.0 dpt: 4-5 UHL 1 BT 9 CE 0196 Surface power &gt; 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>
<b>Product specification</b>	<p>Mechanical strength: protection against high-speed particles at extremes of temperature BT (120 m/s) Optical class: 1 (surface power &lt; 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>
<b>Additional product information</b>	<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>
<b>Regulations/ Liabilities</b>	<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-DECLARATION OF CONFORMITY (2018.R3)

1. PPE: **GFKVI020-1**
2. Manufacturer: **Rudolf Uhlen GmbH  
Am Höfgen 13  
42781 Haan**
3. 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 260x150x1mm, green, gold-coated
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 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**.
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  
-Geschäftsführer-

