



# SCHUBERTH

Helmet Line

2018



SCHUBERTH



# ENJOY YOUR FREEDOM.

It's a SCHUBERTH.

FOR RIDERS. AND RACERS.  
FOR EXPLORERS. AND  
DREAMERS. FOR EVERY  
CHALLENGE. FOR EVERY  
GROUND. A PASSION. AND  
A PROFESSION. A DAILY  
ADVENTURE. AND NO  
EXCUSES. WE SWEAT EVERY  
DETAIL, BECAUSE WE  
LOVE WHAT WE DO.  
THIS IS OUR THING .  
THIS IS SCHUBERTH.





# IT'S NOT A HELMET.

It's a must-have.



# 01



Style begins in the mind. Complement your style with the **SCHUBERTH 01** – on and around the bike. Modern design and stylish colors, with three shells and six helmet sizes, so that every biker can find the perfect fit. It's not a helmet. It's a must-have.



- **Modern classic**  
Classic jet helmet, reinterpreted
- **Stylish patterns**  
Various colors and designs available
- **Comfort zone**  
Fewer pads for improved head ventilation
- **Perfect fit**  
3 shells and 6 helmet sizes available





# R2 CARBON



The helmet to jump-start your ride. **SCHUBERTH R2 CARBON**, the first carbon helmet with an integrated communication system, extends your driving pleasure – thanks to a lightweight carbon outer shell and built-in, invisible communication technology. The companion that takes you further. Further than ever before. Enjoy longer.

- **Flyweight**  
Helmet shell made of 100 % carbon
- **SC1 communication system compatible**  
GPS navigation, music streaming and phone calls. Everything can be operated by app
- **Comfort zone**  
Perfect fit and high-quality ShinyTex® lining with seamless head padding

## ENJOY LONGER.







ENJOY  
LONGER.

# R2



- **Surround Sound**  
Integrated speaker and boomless microphone, prepared for the SC1 communication system
- **Well connected**  
Integrated antenna
- **Perfect Fit**  
Double-D fastener and emergency cheek pads
- **Modern classic**  
Classic full-face helmet, reinterpreted



Maximum endurance when worn. The **SCHUBERTH R2** extends and intensifies your riding pleasure thanks to the latest SCHUBERTH technology: Integrated and invisible communication technology, high quality and seamless head padding and a new ventilation system ensure the highest comfort and maximum driving pleasure. A companion that takes you further. Enjoy longer.



# REDEFINE YOUR STANDARDS.

Passion newly designed.

# C4



The **SCHUBERTH C4** redefines the flip-up helmet and represents the new benchmark for touring and sports riders with the highest demands. No pendulum effect, no distracting noise, no premature tiring. The **SCHUBERTH C4** impresses both at high speeds and during long touring rides. Enjoy a modern design with a compact shape and the comfort of a flip-up helmet combined with a sleeker look.



- For optimum Bluetooth® and radio reception  
Integrated antenna, pre-installed speakers and microphone
- Plug & play  
Designed for the communication system SC1
- Extra-large anti-fog lens  
Wide field of vision even when the rider adopts a racing posture





# E1



The comfort of a flip-up helmet, the look & feel of a modern adventure helmet, the safety of a SCHUBERTH helmet! For the modern adventurer who wants everything: top performance in safety, flexibility and protection. Uncompromisingly flexible for your next adventure. Discover the world with the **SCHUBERTH E1** – in your daily life, going off road and on touring trips.



- **Even more air to breathe**  
An adjustable air inlet on the chin section ensures perfect air intake on longer tours as well as when riding off road
- **Perfectly prepared for any adventure**  
Three-position peak, seven different visor tints and four tint options for the sun visor
- **Plug & play**  
Designed for the communication system SC10U

## EXPLORE YOUR LIMITS.

On and off road.





# NEVER GIVE UP.

It's all about performance.

# SR2



Ambitious amateur riders and professional racers have one thing in common: the highest demands. The sports helmet **SCHUBERTH SR2** fulfills these and has been developed for optimal performance. An improved spoiler ensures that the riders head stays steady. The new visor ensures a clear view in every situation. Be it on the country road, the motorway or the racetrack, the **SCHUBERTH SR2** allows riders to be more focused, more relaxed and therefore safer while riding their bike. For whatever lies ahead.

- **Double-D fastener**  
Simple and precise adjustment of the chin strap length ensures a reliably firm fit
- **Top-class racing visor**  
2D racing visor, improved for the use of tear-offs, anti-fog lens





# READY, SET GO.

It's an allrounder.



# S2 SPORT



Riders must always adjust to the prevailing conditions. The same goes for their equipment. The **SCHUBERTH S2 SPORT** is designed specifically for touring and sports touring riders. Its strength: a perfect combination of weight, compact size, aerodynamics, aeroacoustics and sports design for everyday use. The helmet is ideal for touring and sports touring, and even copes well with occasional excursions onto the racetrack.

- **Safety in every situation**  
The double-D fastener guarantees simple and precise adjustment of the chin strap length and ensures a reliably firm fit
- **Guaranteed no misting up**  
In the "town position", the **S2 SPORT** high-tech visor ensures maximum ventilation even when riding slowly
- **Riding into the rising sun no problem**  
The **S2 SPORT** is equipped with an integral sun visor
- **Perfectly designed for the SRC-System™**  
Two integrated antennas for long range and top radio reception



# OPEN MINDED.

It's a SCHUBERTH.



# M1



INSPIRED BY PASSIONATE MOTORCYCLISTS, EQUIPPED WITH THE PROVEN SAFETY TECHNOLOGY FROM SCHUBERTH:

- Five different visor colors  
Clear, dark smoke, light smoke, silver or blue mirrored
- Quick release for the visor
- Five different sun visor tints:  
80% tint, clear, high-definition yellow, silver or blue mirrored



## COMMUNICATION SYSTEM ALREADY PRE-INSTALLED

**Plug & play:** all components, such as the invisible microphone, the speakers and the wiring, are pre-installed.

Music, navigation, telephone calls or a chat with your travelling buddy – the **SRC-System™**, which is available as an accessory, makes it all possible. The **SCHUBERTH M1** is prepared for the system with speakers and an invisible microphone. The **SRC-System™** merely needs to be connected to the dock at the rear of the helmet.



# C3 PRO



Anyone who rides frequently on long touring trips as well as fast short trips needs a helmet that has been tried and tested. The **SCHUBERTH C3 PRO** impresses through the functionality, comfort and protection it offers. The spoiler ensures that the helmet remains steady in the wind at all times. No lift. No buffeting. With its high-quality inner lining made from COOLMAX® and microfiber, the perfect ventilation system and a unique acoustics package, the **SCHUBERTH C3 PRO** is the most popular helmet in the SCHUBERTH product line.



## UNIVERSAL GENIUS.

Wherever. Whatever.  
Whenever.



- **Zero buffeting**  
100 % no pendulum effect – thanks to wind tunnel optimization
- **Small and light-weight**  
Two compact shell sizes, only approx. 1,570 g incl. sun visor (size M)
- **Extremely quiet**  
Developed in SCHUBERTH's own wind tunnel
- **Plug & play**  
Designed for the communication system SC10U





# C3 BASIC



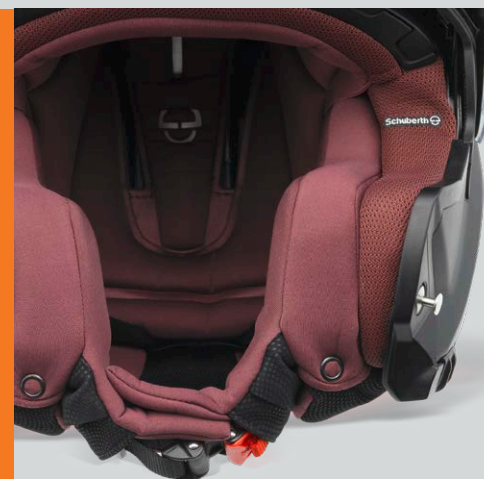
The **SCHUBERTH C3 BASIC** is the modern classic among the flip-up helmets and the best friend on every tour. It offers maximum wear comfort as well as maximum safety. The touring helmet category leader impresses with its practical and ergonomic user-friendliness. Thanks to the integrated sun visor it is equipped for every lighting and weather condition the tour may present. Fogging up is prevented by the anti-fog lens. Its pleasant riding characteristics makes it always stand out from the crowd.



# C3 PRO WOMEN



- **Carefully selected materials**  
The inner lining is composed of COOLMAX®, Interpower® and Thermocool®
- **Secure fastener**  
Optimization of the chin strap length through precise two-sided adjustment of the micro-lock ratchet fastener
- **Integrated sun visor**  
Single-handed lowering and retracting via a slider at the helmet edge
- **Plug & Play**  
Designed for the SC10U communication system as standard



The inner lining of the **SCHUBERTH C3 PRO WOMEN** was developed specifically for women. Not only is it optimized for smaller head sizes, it also takes into account feminine facial shapes. The **SCHUBERTH C3 PRO WOMEN** has additional padding in the cheek areas, and the optimized fit ensures enhanced wearing comfort and thereby greater safety. This inner lining is composed of high-quality materials with an antibacterial and anti-allergenic coating.

- **Secure fastener**  
Standard delivery with micro-lock ratchet fastener
- **Integrated sun visor**  
The sun visor enables quick and individual adjustment according to light conditions. It is integrated into the helmet shell and is pivoted
- **Integrated anti-fog lens**  
Preventing any fogging up

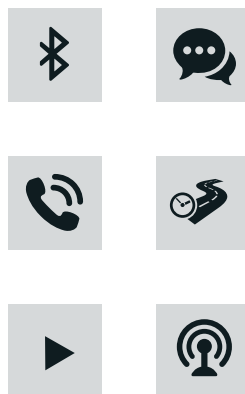


# SC1



## THE NEXT GENERATION OF THE COMMUNICATION SYSTEM FOR C4, R2 AND R2 CARBON

Communicating, speaking on the phone, using the satnav, listening to music – communication is now becoming very simple on the motorcycle as well.



# SC10U



## THE COMMUNICATION SYSTEM FOR E1, C3 BASIC, C3 PRO AND C3 PRO WOMEN



- **Two different performance levels**  
Available as SC1 STANDARD and SC1 ADVANCED
- **Invisible technology**  
Microphone, speakers, antenna and wiring are pre-installed in the SCHUBERTH flip-up helmet C4 and in the SCHUBERTH full-face helmets R2 and R2 CARBON
- **Simple plug & play operation**  
Slide the communication unit and the rechargeable lithium-ion battery into the two slots integrated into the helmet and get started
- **Intercom**  
Conference mode for up to 4 riders
- **Optimum networking**  
Supports two Bluetooth® sources simultaneously and facilitates music sharing in the SC1 ADVANCED version
- **Even greater comfort**  
Optional Bluetooth® handlebar remote control available



- **Simple installation**  
Small and light-weight; fits inside helmet shell
- **Fully fitted**  
Speakers, microphone and communication unit are fully wired and ready for super-fast integration into the helmet
- **Intercom**  
Conference mode for up to 4 riders
- **Optimum networking**  
Supports two Bluetooth® sources simultaneously and enables music sharing
- **Even greater comfort**  
Optional Bluetooth® handlebar remote control available



# RIDE.

And have fun.

# SCHUBERTH

Helmprogramm

2017



SCHUBERTH



# ENJOY YOUR FREEDOM.

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FOR RIDERS. AND RACERS.  
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# REDEFINE YOUR STANDARDS.

Passion, newly designed.



# C4



SC1





# R2



## REDUCED TO THE MAX.

The essence of motorcycling.





# EXPLORE YOUR LIMITS.

On and off road.



# E1





# NEVER GIVE UP.

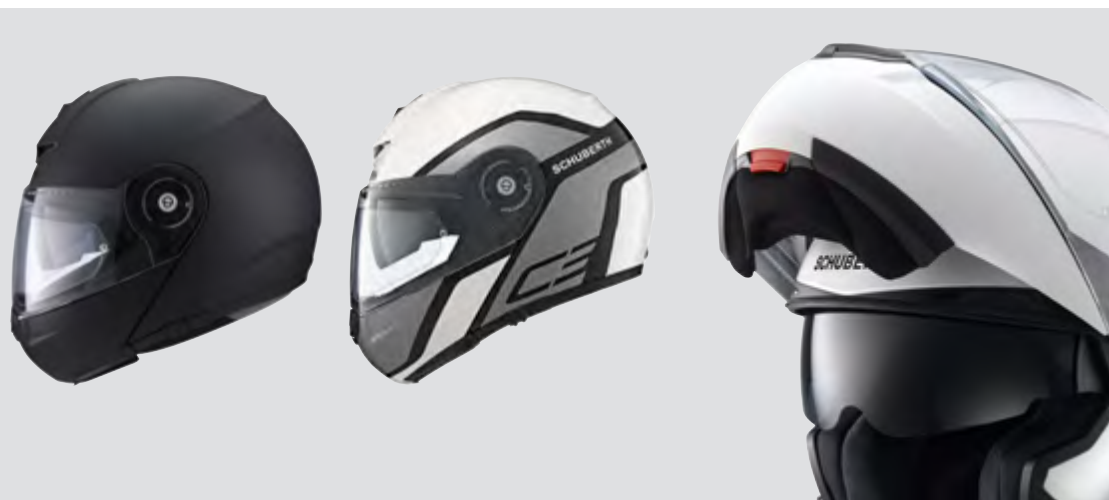
It's all about performance.

# SR2



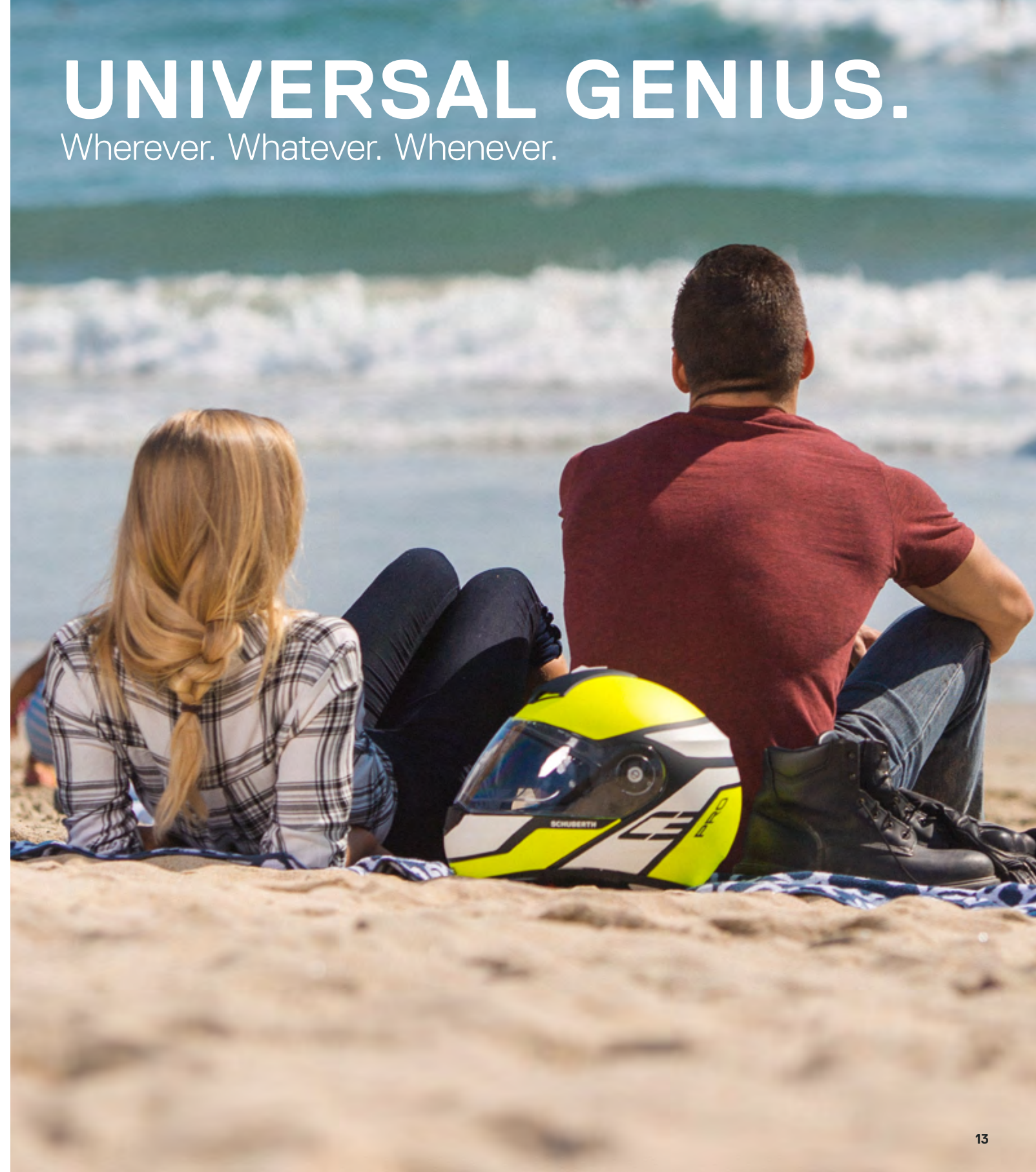


# C3 PRO



## UNIVERSAL GENIUS.

Wherever. Whatever. Whenever.





READY, SET, GO.  
It's an allrounder.



S2 SPORT







OPEN MINDED.  
It's a SCHUBERTH.



M1





# C3 PRO WOMEN



 SCHUBERTH SC10U

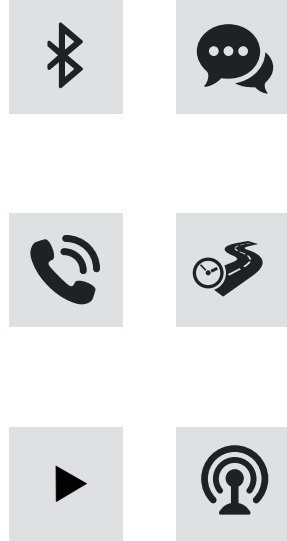


**JUST THE  
RIGHT STYLE.**  
Helmets exclusively made for you.





# SC1



# SC10U





# SCHUBERTH.

Helmet line.



2018



SCHUBERTH





# HELMETS FOR HEROES.

Made with passion.

## HIGH-PERFORMANCE FIREFIGHTER HELMETS – PERFECT FUNCTIONALITY AND OUTSTANDING WEAR COMFORT

For over 50 years SCHUBERTH firefighter helmets have guaranteed the highest safety, quality, functionality, and wear comfort. They are specially developed for the type of operational conditions practiced in flash-over containers, conform the improved standards, and increased test criteria of the EN 443:2008. These inclusive parts complete new demands in the protect-ability of the helmets. Our recent expertise concerning material properties and manufacturing technology has made a contribution in optimizing the complete protective equipment. Thereby the risk of getting injured is lowered when used in fire fighting.



## OPTIONAL CHARACTERISTICS / APPROVAL



SOLAS

Approval for fire fighting on ships



E2 E3

Electrical insulation capability of the helmet and helmet shell when wet



C

Resistance in contact with liquid chemicals



-40°C

Suitable for use at low temperatures down to -40 °C



EN 443

Norm: EN 443:2008

## EVERY SINGLE SCHUBERTH FIREFIGHTER HELMET CONTAINS A PIECE OF FORMULA 1

Many years of experience from this elite class of motor sports and its requirements to safety, shaped our philosophy and contribution to the development of every single SCHUBERTH high-performance firefighter helmet. Our commitment is not only the fulfillment of the normal specifications but their over-fulfillment. Our engineers are constantly researching new materials and solutions in order to live up to our guiding principle – to develop helmets of tomorrow for the toughest conditions.



# FOCUS THE MISSION.

With perfect head protection.



# F300



## THE UNIVERSAL GENIUS

- Innovative helmet shape (Type A) for large mobility
- Increased resistance to flames
- Helmet shell material made of further developed, highly temperature-resistant HighTemp-Fibre
- Multi-functional-adaptor (MFA-Fire) for adaption of different accessories
- New developed inner lining for maximum wearing comfort
- Head size quick adjustment system with screw closure
- Optimized weight for maximum safety
- Quick and easy replacement of spare parts without tools
- Freedom of movement, directional hearing





# PRODUCT BENEFITS.

- 1

**HELMET SHELL**  
The helmet shell is made of HighTemp-Fibre and has an optimized weight for maximum safety. The fiber glass reinforced Special-Duroplast-Matrix is proven to resist breakage or penetration and is extremely resistant to heat and against all common chemicals.
- 2

**INNER LINING**  
The highly adjustable inner lining with suspension mesh allows greater comfort by optimizing the weight distribution.
- 3

**FRONT PANEL**  
The front panel is specially designed for the application of badge decal or department shield.
- 4

**REFLECTIVE STICKERS**  
Reflective stickers for improved visibility.
- 5

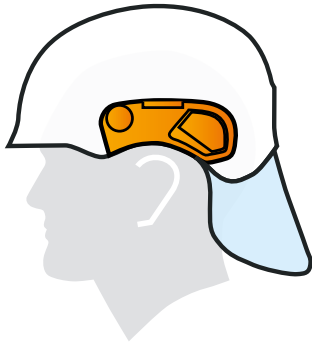
**PROTECTIVE EDGING**  
Optionally available.

- 6

**INNER LINING**  
The highly adjustable inner lining with suspension mesh allows greater comfort by optimizing the weight distribution.
- 7

**CHIN AND NECK STRAPS**  
The chin and neck straps are highly adaptable to individual head size/ shape via the adjustable straps located at the front right and front left, on the rear of the neck strap and with the fastener on the chinstrap. The chin strap quick release is also easy to adjust with gloves on.
- 8

**MULTI-FUNCTION-ADAPTOR**  
The Multi-Function-Adaptor (MFA-FIRE) enables quick and easy installation of various accessories.



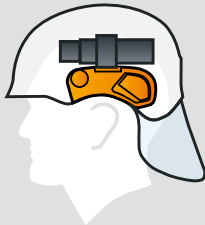
# F300



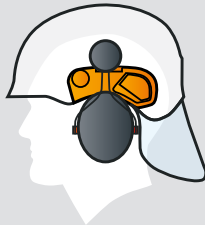
- Innovative new helmet shape allows increased freedom of movement doing overhead work.
- The screw closure on the back of the head can also be adjusted easily to the precise head size, also with gloves on. An optional neck pad is also available.



Helmet-/mask-combination



Helmet lamp



Hearing protection



Visor



Communication systems



# READY AT ANY TIME.

Just do your job.



# F220



## THE ALLROUNDER

- Approved helmet shape
- Increased resistance to flames
- Helmet shell material made of further developed, highly temperature-resistant HighTemp-Fibre
- Integrated visor tested to DIN EN 14458:2004 (suitable for inside attack)
- 3-point-chin-neck strap made from Nomex® material
- Height-adjustable inner lining
- Multi-Adaption-Lock: push button fasteners for direct attachment of full-face masks as well as accessories
- Lamp holder (front)





# PRODUCT BENEFITS.

- 1

**HELMET SHELL**  
The helmet shell is made of HighTemp-Fibre and has an optimized weight for maximum safety.
- 2

**INNER SHELL**  
The high-quality inner shell consists of polyurethane foam and combines high impact absorption with good insulation properties and high thermal resistance.
- 3

**INNER LINING**  
Height-adjustable suspension with support mesh enables a high level of comfort through optimal weight distribution.
- 4

**LAMP HOLDER**  
The integrated lamp holder facilitates the adaption of a helmet lamp.

- 5

**VISOR**  
The integrated visor protects against mechanical injury (i.e. through sparks or flying fragments). Impact and high thermal resistance tested to DIN EN 14458:2004 (suitable for inside attack).
- 6

**CHIN-NECK STRAP**  
The 3-point chin-neck strap is made from Nomex®-material and provides a close, secure, and comfortable fit.
- 7

**QUICK RELEASE FASTENER**  
The quick release fastener enables a quick and optimally comfortable opening and closing of the 3-point chin-neck strap.
- 8

**MULTI-ADAPTION-LOCK**  
Multi-Adaption-Lock: push button fasteners for direct attachment of full-face masks as well as accessories.

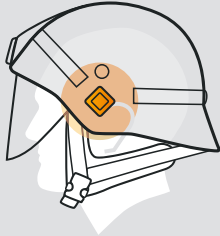
# F220



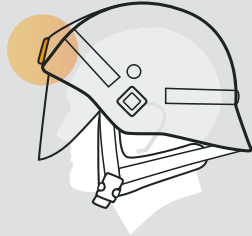
- The screw closure on the back of the head can be adjusted easily to the head size, also with gloves on. An optional neck pad is also available.
- The head size quick-adjustment system for full-face masks with head strap is individually adjustable to the specific head size. Thus allowing for a quick size adjustment of the suspension when using a full-face mask with head straps.



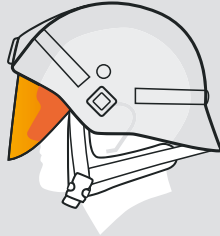
3/4 Helmet shell



Multi-adaptor lock



Lamp holder



Visor



# WHEN EVERY SECOND COUNTS.

Trust in your gear and go on.

# F130



## THE NEW CLASSIC

- Traditional helmet shape
- Increased resistance to flames
- Helmet shell material made of further developed, highly temperature-resistant HighTemp-Fibre
- 3-point-chin-neck strap made from Nomex® material
- Height-adjustable inner lining
- Head width adjustment with screw closure
- Wide range of accessories
- Electrical insulation capacity E2/E3
- Protection against contact with liquid chemicals
- Solas approved





# ALWAYS ON DUTY.

It's a SCHUBERTH.

# FEUERWE

# F120<sup>PRO</sup>



## THE TRADITIONAL

- Traditional helmet shape
- Increased resistance to flames
- Helmet shell material made of further developed, highly temperature-resistant HighTemp-Fibre
- 4-point-chin-neck strap made from leather
- Height-adjustable inner lining
- Wide range of accessories
- Electrical insulation capacity E2/E3
- Protection against contact with liquid chemicals
- Solas approved





# SMALL HEROES.

Big dreams.



# CROSS® YOUNGSTAR



- Youth fire brigade
- Multi-Function-Adaptor (MFA-FIRE) enables quick and easy installation of various accessories
- Suitable for use at low temperatures down to  $-20^{\circ}\text{C}$
- Adjustable side vent is standard
- High wearing comfort and secure fit due to the ergonomic and adjustable inner lining
- Low weight

- With Wellvitex® Z+ sweat band and screw closure as standard
- Available with 2-point chinstrap made of leather or textile and 4-point chinstrap with click closure
- Various accessories available
- White edge protection is standard
- Comes with the DJF-logo as a standard, with the option to have your individual youth fire brigade logo applied





# HEADS UP.

With Passion.



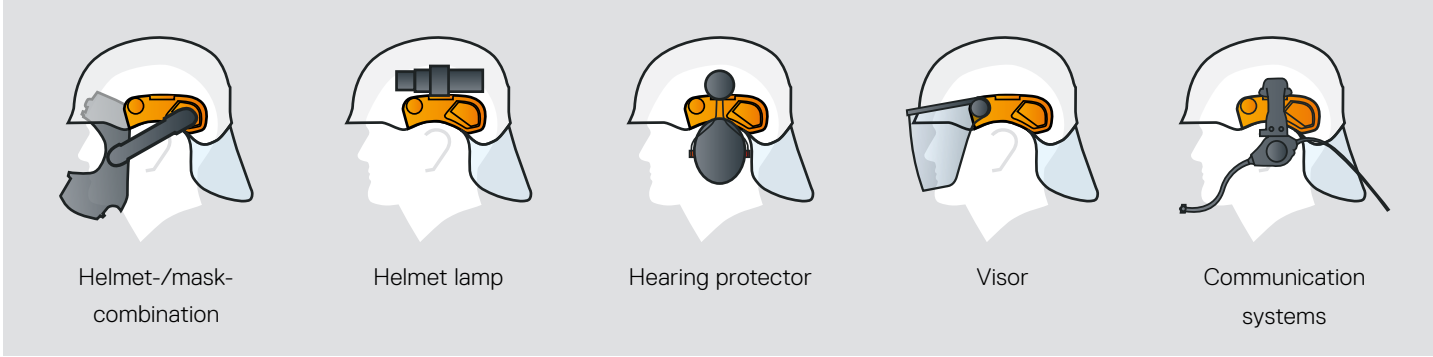
## SPECIFICATIONS & FACTS.

	F300	F220	F130	F120 <sup>PRO</sup>	CROSS <sup>®</sup> YOUNGSTAR
Helmet shape	Type A - Half shell	Type A - 3/4 Helmet shell	Type A - Half shell	Type A - Half shell	Straight helmet shell
Material	Duroplastmaterial (HighTemp-Fibre)	Duroplastmaterial (HighTemp-Fibre)	Duroplastmaterial (HighTemp-Fibre)	Duroplastmaterial (HighTemp-Fibre)	Polypropylen (PP)
Headsize	M: 48 – 58 cm L: 59 – 65 cm	53 – 62 cm	H3 (53 – 62 cm)	H2/1 (50 – 57 cm) H2 (53 – 62 cm) H3 (59 – 64 cm)	Size (53 – 61 cm)
Weight	Without mounted accessories M: Approx. 900 g* L: Approx. 1000 g*	Approx. 1050 g (without accessories)	Approx. 900 g (H2) Approx. 1000 g (H3)	Approx. 900 g (H2) Approx. 1000 g (H3)	Approx. 395 g
Standard	DIN EN 443:2008, SOLAS	DIN EN 443:2008, SOLAS	DIN EN 443:2008, SOLAS	DIN EN 443:2008, SOLAS	DIN EN 397
Inner shell	PU-inner shell, resistant to high temperatures	PU-inner shell, resistant to high temperatures	PU-inner shell resistant to high temperatures	PU-inner shell resistant to high temperatures	–
Interior fittings	Head size quick adjustment system with rotary seal  Individually adjustable chin and neck strap (with Velcro fastener and quick-release buckle at the front)  Wearing height adjustable with Velcro fastener (provides maximum comfort when wearing due to optimum weight distribution and individual adjustment to fit different head shapes)	Height-adjustable interior fittings with carry net  Head support ring with ecological leather sweat-band (suitable for allergy sufferers)  Head size adjustment with screw closure	Height-adjustable interior fittings with carry net  Head support ring with ecological leather sweatband (suitable for allergy sufferers)  Head size adjustment with screw closure	Nirosta-Inner shell I/81 GF with sweatband	Head size quick adjustment system with screw closure  6 point strap/ I79 G-R Sweat band Wellvitex <sup>®</sup> Z+
Closure system	3-point chin/neck strap made from Nomex <sup>®</sup> webbing with quick-release fastener  Height and width are individually adjustable	3-point chin/neck strap with quick-fastener made from Nomex <sup>®</sup> strap  Height and width are individually adjustable	3-point chin/neck strap with quick-fastener made from Nomex <sup>®</sup> strap  Height and width are individually adjustable	4-point chin/neck strap made from leather	2-point or 4-point chin strap
Colors	<div>■ With long persistent after-glow and reflective band</div> <div>Special colors:</div> <div>■ RedRAL 3002</div> <div>■ BlackRAL 9005</div> <div>□ WhiteRAL 9010</div> <div>■ Luminous OrangeRAL 2005</div> <div>■ Luminous YellowRAL 1026</div>	<div>■ With long persistent after-glow and reflective band</div> <div>Special colors:</div> <div>■ RedRAL 3002</div> <div>■ BlackRAL 9005</div> <div>□ WhiteRAL 9010</div> <div>■ Luminous OrangeRAL 2005</div> <div>■ Luminous YellowRAL 1026</div>	<div>■ With long persistent after-glow and reflective band</div> <div>Special colors:</div> <div>■ RedRAL 3002</div> <div>■ BlackRAL 9005</div> <div>□ WhiteRAL 9010</div> <div>■ Luminous OrangeRAL 2005</div> <div>■ Luminous YellowRAL 1026</div>	<div>■ With long persistent after-glow and reflective band</div>	<div>■ RedRAL 3002</div> <div>■ OrangeRAL 2004</div>



# ACCESSORIES.

F300



## ADAPTER, FOILS, PADS

Adapter  
for ear muffs



Mask adaption  
for helmet mask combination



Reflective stickers



Neck pad



## LIGHTS

Flashlight  
SH-UK 2AA eLED ET



Flashlight  
SH-UK 3AA CPO TS



Adapter for Flashlight  
LH3



## VISORS

Visor  
VF3 Rescue



Visor  
VF3 HighTemp



Visor  
VF3 Wire



## NECK PROTECTION

Neck protection  
NPH3 Nomex®



Neck protection  
NPH3 Silver Pro




Neck protection  
HTH3-X

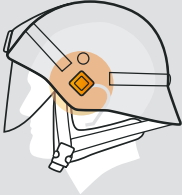




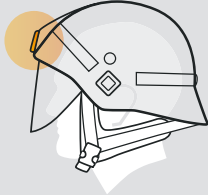
# ACCESSORIES. F220 / F130 / F120<sup>PRO</sup>




3/4 Helmet shell



Multi-adaptor lock




Lamp holder



Visor


## LIGHTS, ADAPTER

Flashlight (front)  
SH-UK 3AAA Vizion




F220

Flashlight  
SH-UK 2AA eLED ET



F220 / F130 / F120<sup>PRO</sup>

Flashlight  
SH-UK 3AA CPO TS



F220 / F130 / F120<sup>PRO</sup>

EEx approved in accordance to the newest ATEX standards

Plug adapter Ultra Lux



F130 / F120<sup>PRO</sup>

Set – helmet base plate & plug adapter UK



F130 / F120<sup>PRO</sup>

Helmet base plate Ultra Lux Pro



F130 / F120<sup>PRO</sup>

Plug adapter Ultra Lux S



F220

## VISORS

Visor Holder  
HF1



F130 / F120<sup>PRO</sup>

Visor  
VF1 HighTemp



F130 / F120<sup>PRO</sup>

Visor  
VF1 Rescue



F130 / F120<sup>PRO</sup>


Visor  
VF1 Wire



F130 / F120<sup>PRO</sup>


## NECK PROTECTION, HOLLAND CLOTH, PADS

Neck protection  
NPH2 Classic Leder




F220 / F130

Neck protection  
NPH2 Silver Pro




F220 / F130

Neck protection  
NPH1 Nomex®




F220 / F130

Holland cloth  
HTH1/2-X




F220 / F130

Neck protection  
NPS1 Classic Leder




F120<sup>PRO</sup>

Holland cloth  
HTS1




F120<sup>PRO</sup>

Neck protection  
NPS1 Nomex®



F120<sup>PRO</sup>

Neck pad



F220 / F130



EN

# SCHUBERTH

## Helmet Line



**SCHUBERTH**



# RESIST THE EXTREME.

With perfect protection.

Wherever and whenever you need effective head protection for industrial work, SCHUBERTH helmets are your first choice. With more than sixty years' experience of developing and manufacturing industrial safety helmets, SCHUBERTH sets the standards for safety, reliability and comfort. SCHUBERTH helmets guarantee exceptional protection, even in when used in extreme environments.









# ALWAYS THE RIGHT CHOICE.

When selecting the right helmet, the shell material is the first consideration. Depending on the protection required, users can choose between thermoplastic and thermosetting polymer helmet models.

## THERMOPLASTIC

## THERMOSETTING POLYMER

Material designation	THERMOPLASTIC			THERMOSETTING POLYMER	
	HDPE	ABS	PP	PF-SF	UP-GF
Material group	High density polyethylene	Polymer resin	Polypropylene	Textile phenol	Polyester fibreglass
Ageing resistance	good	good	good	very good	very good
UV resistance	yes	yes	yes	very good	very good
Shape retention when exposed to heat	up to approx. +125 °C	up to approx. +90 °C	up to approx. +140 °C	up to approx. +200 °C	up to approx. +200 °C
Fracture resistance when cold	good down to -75 °C	good down to -30 °C	good down to -20 °C	very good	very good
Moisture absorption	none	very low (0.2%)	none (<0.1%)	very low (0.3%)	very low (0.3%)
Chemical resistance	yes, with the exception of oils and greases	yes, with the exception of acids	yes (with the exception of oils and greases at high temperatures)	yes	yes
Spec. weight [g/cm³]	0.96	1.05	yes (with the exception of oils and greases at high temperatures)	1.60	1.70
applications	predominantly for cold environments			predominantly for hot environments	
	<ul style="list-style-type: none"><li>mainstream construction industries</li><li>construction-related industries</li><li>assembly work</li><li>mechanical workshops</li><li>manual trades</li><li>chemical industry</li><li>food industry</li></ul>			<ul style="list-style-type: none"><li>metal processing industry</li><li>metal production</li><li>chemical industry</li><li>oil industry</li><li>dockyards</li><li>welding work</li><li>coking plants</li><li>energy and gas utilities</li></ul>	





# STEEL.

Some like it hot.

Choosing the right safety helmet is especially important for hot environments. For example for work around furnaces, rolling mills and foundries. SCHUBERTH thermosetting polymer safety helmets consist of several components, and are cured at high pressure and temperature in a pressing process. Curing is a chemical reaction, where the plastic achieves its final strength. For helmets which provide convincing shape stability and low thermal transfer when exposed to heat.





**BOP**

**BOP R**

**BOP 74 R**

**BOP S PRO**

**SUP**

**BEN**

**BEN R**

**BEN 74 R**

## **BER 80 GLOWSHIELD**

This luminous helmet (page 40) is ideally suited as a visitors' helmet for the **steel** sector.

## **APPLICATIONS**

- hot environments
- chemical industry
- workplaces with high UV exposure
- workplaces with demanding and varied protection requirements
- high performance all-round helmets
- oil industry
- dockyards



**SCHUBERTH**





## Benefits

- **Suited for tasks carried out in high ambient temperatures** (e.g. furnaces)
- **suited to tasks with exposure to molten metal, for example**
- **high lateral stiffness**
  - retains shape at elevated temperatures
  - high penetration resistance and impact toughness
  - chemical resistant
  - highly resistant to aging (long service life)
- very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings

## BOP

### additional benefits

- **available in 3 helmet shell sizes**



## BOP<sup>R</sup>

### additional benefits

- **rain gutter**



## BOP<sup>74 R</sup>

### additional benefits

- **available in 2 helmet shell sizes**
- **Large protective surface** due to helmet with extended neck section
- **rain gutter**





## BOP

## BOP R

## BOP 74 R

Certification	DIN EN 397			DIN EN 397			DIN EN 397					
	▪ Temperatures up to +150 °C (only when used in conjunction with special internal fittings I/79 GW-R) ▪ metal spatter (MM) ▪ lateral deformation (LD)			▪ Temperatures up to +150 °C (only when used in conjunction with special internal fittings I/79 GW-R) ▪ metal spatter (MM) ▪ lateral deformation (LD)			▪ Temperatures up to +150 °C (only when used in conjunction with special internal fittings I/79 GW-R) ▪ metal spatter (MM) ▪ lateral deformation (LD)					
	internal equipment											
Type	I/79 GD-R		I/79 GW-R		I/79 GD-R		I/79 GW-R		I/79 GD-R		I/79 GW-R	
Special feature	–		tested to supplementary requirement +150 °C		–		tested to supplementary requirement +150 °C		–		tested to supplementary requirement +150 °C	
Webbing	6 point		6 point		6 point		6 point		6 point		6 point	
Version	with screw cap		with screw cap (flame retardant)		with screw cap		with screw cap (flame retardant)		with screw cap		with screw cap (flame retardant)	
Eye protection	possible		–		possible		–		possible		–	
Sweat band	real leather		real leather		real leather		real leather		real leather		real leather	
Cushion strip	standard		standard		standard		standard		standard		standard	
Chin strap suspension	4 point		2 point		4 point		2 point		4 point		2 point	
Variant type	I/79 GD		I/79 GW		I/79 GD		I/79 GW		I/79 GD		I/79 GW	
Version	without screw cap		without screw cap		without screw cap		without screw cap		without screw cap		without screw cap	
	helmet features											
Series	–			▪ rain gutter				▪ rain gutter				
Factory fitted option	▪ 16 mm double slots ▪ integrated eye protection (only helmet size 2) ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film				▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film				
Accessories (→Pages 47 – 53)	▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ reflective film			▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ reflective film				▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ reflective film				
	version											
Size	1		2		3		1		2		3	
Head circumference	52 – 56cm		53 – 61cm		59 – 63cm		52 – 56cm		53 – 61cm		59 – 63cm	
Colours	RAL 9016 RAL 1023 RAL 5017 RAL 3020 RAL 6024 special metallic colours		RAL 9016 RAL 1023 RAL 5017 RAL 3020 RAL 6024 RAL 2009 RAL 7042 special metallic colours		RAL 9016 RAL 1023 RAL 5017 RAL 3020 RAL 6024 RAL 2009 special metallic colours		–		RAL 9016 RAL 1023 RAL 5017 RAL 3020 RAL 6024 RAL 2009 special metallic colours		RAL 9016 special metallic colours	
Branding	pad printing				pad printing				pad printing			
Item Size	Front 2.3 × 3 cm		Side 9 × 3 cm		Front 2.3 × 3 cm		Side 9 × 3 cm		Front 4.5 × 4.5 cm		Side 9 × 3 cm	
	parameter											
Shape	straight			straight			with extended neck section					
Material	UP-GF /Polyester fibreglass)			UP-GF /Polyester fibreglass)			UP-GF /Polyester fibreglass)					
Weight	approx. 405 g (size 2)			approx. 420g			approx. 460 g (size 2)					





## Benefits

- **Suited for tasks carried out in high ambient temperatures** (e.g. furnaces)
- **suited to tasks with exposure to molten metal, for example**
  - retains shape at elevated temperatures
  - high penetration resistance and impact toughness
  - chemical resistant
  - highly resistant to aging (long service life)
  - very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings



DURO  
PLAST

## BOP<sup>S</sup> PRO

### additional benefits

- **Especially light** due to advanced polyester fibreglass material



## SUP

### additional benefits

- **protection due to wide continuous brim**





## BOP S PRO

## SUP

Certification	DIN EN 397			DIN EN 397		
Protective properties	▪ Temperatures up to +150 °C (only when used in conjunction with special internal fittings I/79 GW-R)			▪ Temperatures up to +150 °C (only when used in conjunction with special internal fittings I/79 GW-R)		
	▪ metal spatter (MM)			▪ metal spatter (MM)		
	internal equipment					
Type	I/79 GD-R		I/79 GW-R		I/79 GD-R	
Special feature	–		tested to supplementary requirement +150 °C		–	
Webbing	6 point		6 point		6 point	
Version	with screw cap		with screw cap (flame retardant)		with screw cap	
Eye protection	possible		–		–	
Sweat band	real leather		real leather		real leather	
Cushion strip	standard		standard		standard	
Chin strap suspension	4 point		2 point		4 point	
Variant type	I/79 GD		I/79 GW		I/79 GD	
Version	without screw cap		without screw cap		without screw cap	
	helmet features					
Series	–			–		
Factory fitted option	▪ 16 mm double slots ▪ integrated eye protection ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ side ventilation (adjustable) ▪ all-round reflective film		
Accessories (→Pages 47 – 53)	▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ neck protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film		
	version					
Size	1	2	3	1	2	3
Head circumference	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
Colours	–	▪ RAL 9016 ▪ RAL 1023 ▪ RAL 5017 ▪ RAL 3020 ▪ RAL 6024 ▪ RAL 2009 special metallic colours	–	–	▪ RAL 9016 special metallic colours	–
Branding	pad printing			pad printing		
Item Size	Front 2.3 × 3 cm	Side 9 × 3 cm		Front 4.5 × 4.5 cm		Side 9 × 3 cm
	parameter					
Shape	straight			with a wide continuous brim		
Material	UP-GF /Polyester fibreglass)			UP-GF /Polyester fibreglass)		
Weight	approx. 365 g			approx. 445 g		





## Benefits

- **suited to tasks with exposure to molten metal, for example**
- **high lateral stiffness**
- retains shape at elevated temperatures
- high penetration resistance and impact toughness
- chemical resistant
- highly resistant to aging (long service life)
- very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- natural fibre appearance



DURO  
PLAST

## BEN

### additional benefits

- **Suited for tasks carried out in high ambient temperatures** (e.g. furnaces)
- **available in 3 helmet shell sizes**



## BEN<sup>R</sup>

### additional benefits

- **rain gutter**



## BEN<sup>74 R</sup>

### additional benefits

- **Suited for tasks carried out in high ambient temperatures** (e.g. furnaces)
- **available in 3 helmet shell sizes**
- **Large protective surface** due to helmet with extended neck section
- **rain gutter**



+150°C

I/79 GW-R



+150°C

I/79 GW-R



# BEN

# BEN R

# BEN 74 R

Certification	DIN EN 397			DIN EN 397			DIN EN 397			
Protective properties	▪ Temperatures up to +150 °C (only when used in conjunction with special internal fittings I/79 GW-R)			▪ metal spatter (MM)			▪ Temperatures up to +150 °C (only when used in conjunction with special internal fittings I/79 GW-R)			
	▪ metal spatter (MM)			▪ lateral deformation (LD)			▪ metal spatter (MM)			
	▪ lateral deformation (LD)						▪ lateral deformation (LD)			
	internal equipment									
Type	I/79 GD-R		I/79 GW-R		I/79 GD-R		I/79 GD-R		I/79 GW-R	
Special feature	–		tested to supplementary requirement +150 °C		–		–		tested to supplementar requirement +150 °C	
Webbing	6 point		6 point		6 point		6 point		6 point	
Version	with screw cap		with screw cap (flame retardant)		with screw cap		with screw cap		with screw cap (flame retardant)	
Eye protection	possible		–		possible		possible		–	
Sweat band	real leather		real leather		real leather		real leather		real leather	
Cushion strip	standard		standard		standard		standard		standard	
Chin strap suspen- sion	4 point		2 point		4 point		4 point		2 point	
Variant type	I/79 GD		I/79 GW		I/79 GD		I/79 GD		I/79 GW	
Version	without screw cap		without screw cap		without screw cap		without screw cap		without screw cap	
	helmet features									
Series	–			▪ rain gutter			▪ rain gutter			
Factory fitted option	▪ 16 mm double slots ▪ integrated eye protection (only helmet size 2) ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			
Accessories (→Pages 47 – 53)	▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ reflective film			▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ reflective film			▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ reflective film			
	version									
Size	1	2	3	1	2	3	1	2	3	
Head circumference	52 – 56cm	53 – 61cm	59 – 63cm	52 – 56cm	53 – 61cm	59 – 63cm	52 – 56 cm	53 – 61cm	59 – 63cm	
Colours	natural fibre special metallic colours	natural fibre special metallic colours	natural fibre special metallic colours	–	natural fibre special metallic colours	–	–	natural fibre special metallic colours	–	
Branding	pad printing			pad printing			pad printing			
Item Size	Front 2.3 × 3 cm		Side 9 × 3 cm	Front 2.3 × 3 cm		Side 9 × 3 cm	Front 4.5 × 4.5 cm		Side 9 × 3 cm	
	parameter									
Shape	straight			straight			with extended neck section			
Material	PF-SF (textile phenol)			PF-SF (textile phenol)			PF-SF (textile phenol)			
Weight	approx. 400g (size 2)			approx. 410 g			approx. 410 g			



# CHEMICAL. OIL. GAS.

Resist – now.



SCHUBERTH offers several high-performance alternatives for chemical and petrochemical sectors, which have excellent protection levels, high chemical resistance, and come in three helmet shell sizes. In addition, the individual capabilities of each helmet allows optimal protection to be selected for specific work environments - even for use in explosive hazard areas. The thermosetting polymer high performance models are especially suitable for working environments with high levels of heat radiation, and will provide an impressive service life of up to eight years.





**BES/ABS**

**ANTI-STATIC  
HELMET**

**CROSS®GUARD**

**BER S**

**BER 80**

**BOP**

**BOP R**

**BOP 74 R**

**BOP S PRO**

**SUP**

**BEN**

**BEN R**

**BEN 74 R**

All helmets from the **steel** sector (pages 6 - 13) are also suitable for **chemical, oil and gas** sectors.

**BER 80  
GLOWSHIELD**

This luminous helmet (page 40) is ideally suited as a visitors' helmet for the **chemical, oil and gas** sectors.

## APPLICATIONS

- cold operations
- chemical and petrochemical industry
- assembly tasks in electrostatic discharge zones
- assembly work



**SCHUBERTH**



THERMO  
PLAST

## Benefits

- **high quality special thermoplastic material**
- **available in 3 helmet shell sizes**
- **improved force absorption** for side impacts  
due to special cushion strip
- high impact resistance and force dissipation
- High chemical resistance
- High abrasion resistance
- very comfortable to wear and secure fit  
due to ergonomically formed height-adjustable  
internal fittings
- easy to clean

## BES/ABS

### additional benefits

- Optional: **Electrical insulation according to DIN EN 50365** for work involving live electricity or in close proximity to live equipment up to 1000V AC or 1500DC
- **electrical insulation according to DIN EN 397**  
protection against short-term inadvertent contact  
with live conductors up to 440 volts AC



## ANTI-STATIC<sup>HELMET</sup>

### additional benefits

- **Anti-static according to DIN EN 13463**
- **electrostatically safe** and suitable for approved  
uses in explosion hazard environments in all zones  
for explosion groups I and II A





## BES/ABS

## ANTI-STATIC HELMET

Certification	DIN EN 397			DIN EN 397		
Protective properties	▪ electrical insulation to DIN EN 397 (only for helmet types without side ventilation)			▪ anti-static according to DIN EN 13463 ▪ tested up to explosion groups I and II A		
	internal equipment					
Type	I/79 G-R			I/79 G-R		
Special feature	–			–		
Webbing	6 point			6 point		
Version	with screw cap			with screw cap		
Eye protection	possible			–		
Sweat band	real leather			real leather		
Cushion strip	special			special		
Chin strap suspension	4 point			4 point		
Variant type	I/79 G			I/79 G		
Version	without screw cap			without screw cap		
Series	helmet features					
	–			–		
	▪ electrical insulation according to DIN EN 50365 ▪ integrated eye protection (only helmet size 2) ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film		
Accessories (→Pages 47 – 53)	▪ face protection ▪ eye protection screen ▪ neck protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ face protection ▪ neck protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film		
Size	version					
	1	2	3	1	2	3
	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
Colours	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div>custom colours</div>	
Branding	hot embossed/screen printed			hot embossed/screen printed		
Item Size	Front 2.3 × 3 cm		Side 9 × 3 cm	Front 2.3 × 3 cm		Side 9 × 3 cm
Shape	parameter					
	straight			straight		
	Material			Material		
Weight	approx. 380 g			approx. 380 g		





THERMO  
PLAST

## Benefits

- **protective property down to  $-20^{\circ}\text{C}$**   
for use in low temperatures (e.g. outdoors in very cold conditions)
- well-proven standard industry safety helmet
- Good impact damping due to HDPE technology
- with side ventilation as standard
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- low weight
- comprehensive selection of accessories

# CROSS<sup>®</sup>GUARD

### additional benefits

- Easy handling of the accessories due to **MFA-Tech multifunctionadapter**
- Very comfortable to wear and secure fit due to ergonomically formed heightadjustable internal fittings
- By default with corrugated Wellvitex<sup>®</sup> Z+ sweat band and screw closure



# BER<sup>S</sup>

### additional benefits

- **rain gutter**
- Optional: **protective property down to  $-30^{\circ}\text{C}$**   
for use in very low temperatures  
(e.g. cold storage freezers)



# BER<sup>80</sup>

### additional benefits

- **Large protective surface**  
due to helmet with extended neck section
- **rain gutter**
- Optional: **protective property down to  $-30^{\circ}\text{C}$**   
for use in very low temperatures  
(e.g. cold storage freezers)





## BER S

## BER 80

## CROSS® GUARD

Certification	DIN EN 397			DIN EN 397			DIN EN 397		
	▪ protective property down to – 20 °C			▪ protective property down to – 20 °C			▪ protective property down to – 20 °C		
Protective properties	internal equipment								
	I/79 G-R			I/79 G-R			I/79 G-R		
	–			–			–		
	6 point			6 point			6 point		
	with screw cap			with screw cap			with screw cap		
	–			possible			–		
	real leather			real leather			Wellvitex® Z+		
	Standard			Standard			Standard		
	4 point			4 point			4 point		
	I/79 G			I/79 G			–		
Variant type	without screw cap			without screw cap			–		
Series	helmet features								
	▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ rain gutter			▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ rain gutter			▪ MFA-Tech ▪ side ventilation (adjustable)		
	▪ protective property down to – 30 °C ▪ without side ventilation ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ protective property down to – 30 °C ▪ integrated eye protection ▪ side ventilation (adjustable) ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ without side ventilatio (Cross®Electric) ▪ eye protection		
	▪ face protection ▪ neck protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ face protection ▪ eye protection screen ▪ neck protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ face protection ▪ neck protection ▪ chin strap ▪ sweat bands ▪ reflective film ▪ lamp holder ▪ lamp ▪ eye protection screen		
	version								
Size	1	2	3	1	2	3	1	2	3
Head circumference	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
Colours	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	–	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	–	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	–
Branding	hot embossed/screen printed			hot embossed/screen printed			screen printed/print		
Item Size	Front 2.3 × 3 cm	Side 9 × 3 cm		Front 4.5 × 4.5 cm	Side 9 × 3 cm		Front 6 × 4,5 cm	Seite 9 × 2 cm	
Shape	parameter								
	straight			with extended neck section			straight		
	HDPE (High-Density Polyethylene)			HDPE (High-Density Polyethylene)			PP (Polypropylen)		
	approx. 360 g			approx. 365 g			approx. 395 g		





# ENERGY.

## Power of safety.

SCHUBERTH offers various solutions to enhance safety for tasks in the energy sector, which are optimised to the demands of constantly changing requirements.

With the BOP ENERGY 3000 we offer a thermosetting polymer electrician's helmet which, due to the way it is manufactured, is approved for electrical protection, as well as providing arc flash protection.





**BOP ENERGY  
3000**

**ARC SHIELD**

**CROSS®ELECTRIC**

**ELECTRICIAN S**

**ELECTRICIAN 80**

**CROSS®ELECTRIC**

## **APPLICATIONS**

- utilities
- municipal power companies
- high voltage environments
- railway companies
- hot environments
- chemical industry
- electrical work



**SCHUBERTH**





440  
Vac



DURO  
PLAST



## Benefits

- **Arc flash protection**

Tested in the RWE Eurotest centre with the following parameters: 10 kA, 3-phase, 1 sec. Burning duration

- **Electrical insulation according to DIN EN 50 365**

for work involving live electricity or in close proximity to live equipment up to 1000V AC or 1500 V DC

- Maximum conduction of 1.5 mA into inner shell at 3000 V

- **Electrical insulation according to DIN EN 397**

protection against short-term inadvertent contact with live conductors up to 440 volts AC

- **Suited for tasks carried out in high ambient temperatures** (e.g. furnaces)

- **Suited to tasks with exposure to molten metal, for example**

- **High lateral stiffness**

- **Protective property down to -30°C**

For use in very low temperatures (e.g. cold storage freezers)

- Retains shape at elevated temperatures

- Chemical resistant

- Improved force absorption for side impacts due to special cushion strip

# BOP ENERGY<sup>3000</sup>



## Benefits

- **Certified according to GS-ET-29 and ANSI**

- No electrical conductivity

- No protection restriction with normal signs of use

- Improved colour recognition and enhanced contrast

# ARC SHIELD

### additional benefits

- Different levels of protection up to < 25 cal/cm<sup>2</sup>

- Protection class 2, optical class 1

- Connection to the MFA-Duro

- High degree of load capacity reserves





## BOP ENERGY 3000

Certification	DIN EN 397 and DIN EN 50 365		
Protective properties	<ul style="list-style-type: none"><li>▪ Electrical insulation according to DIN EN 50365</li><li>▪ Electrical insulation according to DIN EN 397</li><li>▪ Temperatures up to +150 °C</li><li>▪ Metal spatter (MM)</li><li>▪ Lateral deformation (LD)</li><li>▪ Protective property down to –30 °C</li></ul>		
	internal equipment		
Type	I/79 G-RF		
Special feature	flame retardant screw closure		
Webbing	6 point		
Version	with screw closure (flame retardant)		
Head band colour	Black		
Eye protection	–		
Sweat band	real leather		
Cushion strip	special		
Height-adjustable	yes		
Chin strap suspension	4 point		
Variant type	I/79 G		
Version	without screw closure		
Head band colour	Grey		
	Helmet features		
Series	–		
Factory fitted option	<ul style="list-style-type: none"><li>▪ all-round reflective film</li></ul>		
Accessories (→Pages 47 – 53)	<ul style="list-style-type: none"><li>▪ face protection</li><li>▪ neck protection</li><li>▪ chin strap</li><li>▪ sweat bands</li><li>▪ all-round reflective film</li></ul>		
	version		
Size	1	2	3
Head circumference	52 – 56cm	53 – 61cm	59 – 63cm
Colours	–	<ul style="list-style-type: none"><li>■ RAL 9016</li><li>■ RAL 1023</li><li>■ RAL 5017</li><li>■ RAL 3020</li></ul>	–
Branding	pad printing		
Item Size	Front 2.3 × 3 cm	Side 9 × 3 cm	
	parameter		
Shape	straight		
Material	UP-GF (Polyester fibreglass)		
Weight	approx. 475 g		

## TESTING



**HELMET TEST**  
before arc flash incident



**BOP ENERGY 3000**  
after arc flash incident



**ARC FLASH INCIDENT**



**FOR COMPARISON:**  
thermoplastic electrician's helmet  
and BOP Energy 3000 after the  
arc flash incident



**ARCSHIELD**  
before arc flash incident



**ARCSHIELD**  
after arc flash incident



## ARC SHIELD VISOR

<b>Certification</b>	GS-ET-29:2005				
	<b>Parameter</b>				
<b>Model</b>	Energy Visor	SH ArcShield CL.1	SH ArcShield CL.2	SH ArcShield CL.2-14	SH ArcShield CL.2-25
Arc flash protection class	1	1	2	2	2
ATPV cal/m²	–	–	6	14	25

\* Please contact us for further informations about special solutions.





## Benefits

- **Electrical insulation according to DIN EN 50 365**  
for work involving live electricity or in close proximity to live equipment up to 1000V AC or 1500 V DC
- **Electrical insulation according to DIN EN 397**  
protection against short-term inadvertent contact with live conductors up to 440 volts AC
- **protective property down to -20°C**  
for use in low temperatures (e.g. outdoors in very cold conditions)
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- Good impact damping due to HDPE technology
- comprehensive selection of accessories

440  
Vac

-20°C

THERMO  
PLAST

# CROSS®ELECTRIC

### additional benefits

- Easy handling of the accessories due to **MFA-Tech multifunction adapter**
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- By default with corrugated Wellvitex® Z+ sweat band and screw closure



# ELECTRICIAN<sup>S</sup>

### additional benefits

- **rain gutter**
- Optional: **Protective property down to -30°C**  
For use in very low temperatures  
(e.g. cold storage freezers)

-30°C  
OPTIONAL



# ELECTRICIAN<sup>80</sup>

### additional benefits

- **Large protective surface** due to helmet with extended neck section
- **rain gutter**
- Optional: **Protective property down to -30°C**  
For use in very low temperatures  
(e.g. cold storage freezers)

-30°C  
OPTIONAL





## ELECTRICIAN S

## ELECTRICIAN 80

## CROSS®ELECTRIC

Certification	DIN EN 397 and DIN EN 50 365			DIN EN 397 and DIN EN 50 365			DIN EN 397 and DIN EN 50 365		
	▪ Electrical insulation according to DIN EN 50365 ▪ Electrical insulation according to DIN EN 397 ▪ protective property down to –20 °C			▪ Electrical insulation according to DIN EN 50365 ▪ Electrical insulation according to DIN EN 397 ▪ protective property down to –20 °C			▪ Electrical insulation according to DIN EN 50365 ▪ Electrical insulation according to DIN EN 397 ▪ protective property down to –20 °C		
internal equipment									
Type	I/79 G-R			I/79 G-R			I/79 G-R		
Special feature	–			–			–		
Webbing	6 point			6 point			6 point		
Version	with screw closure			with screw closure			with screw closure		
Eye protection	–			–			–		
Sweat band	real leather			real leather			Wellvitex® Z+		
Cushion strip	Standard			Standard			Standard		
Chin strap suspension	4 point			4 point			4 point		
Variant type	I/79 G			I/79 G			–		
Version	without screw closure			without screw closure			–		
Helmet features									
Series	▪ 16 mm double slots ▪ rain gutter			▪ 16 mm double slots ▪ rain gutter			▪ MFA-Tech		
Factory fitted option	▪ Protective property down to –30 °C ▪ all-round reflective film			▪ Protective property down to –30 °C ▪ all-round reflective film			▪ eye protection		
Accessories (→Pages 47 – 53)	▪ face protection ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ face protection ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ face protection ▪ neck protection ▪ chin strap ▪ sweat bands ▪ reflective film ▪ lamp ▪ eye protection		
version									
Size	1	2	3	1	2	3	1	2	3
Head circumference	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
Colours	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	–	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	–		<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	–
Branding	hot embossed/screen printed			hot embossed/screen printed			screen printed/print		
Item Size	Front 2.3 × 3 cm	Side 9 × 3 cm		Front 4.5 × 4.5 cm	Side 9 × 3 cm		Front 6 × 4,5 cm	Side 9 × 2 cm	
parameter									
Shape	straight			with extended neck section			straight		
Material	HDPE (High-Density Polyethylene)			HDPE (High-Density Polyethylene)			PP (Polypropylen)		
Weight	approx. 360 g			approx. 365 g			approx. 395 g		



# MINING.

## Right in the middle.

SCHUBERTH mining helmets stand out due to their high abrasion resistance and excellent protection properties. The internal fittings with Impact Tube Technology provide very good shock absorption. In addition, the special flame-retardant cushion strips fitted as standard inside the helmet ensure improved absorption of side and front impacts.





**MINER'S HELMET**

**MINER  
ANTI-STATIC**

**MINE RESCUE  
TEAM HELMET**

**BER 80  
GLOWSHIELD**

This luminous helmet (page 40) is ideally suited as a visitors' helmet for the **mining** sector.

## APPLICATIONS

- mining
- underground work
- mine rescue



**SCHUBERTH**

THERMO  
PLAST

## Benefits

- **available in 3 helmet shell sizes**
- high impact resistance and force dissipation
- Improved force absorption for side impacts due to special cushion strips (closed-pore)
- Optimised shock-absorption from Impact Tube Technology
- Easy cleaning
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings

# MINER'S HELMET

440  
Vac

### additional benefits

- Optional: **Electrical insulation according to DIN EN 50 365** for work involving live electricity or in close proximity to live equipment up to 1000V AC or 1500 V DC
- **Electrical insulation according to DIN EN 397** protection against short-term inadvertent contact with live conductors up to 440 volts AC



# MINER ANTI-STATIC



### additional benefits

- **Anti-static according to DIN EN 13463**
- **Electrostatically safe** and suitable for approved uses in explosion hazard environments in all zones for explosion groups I and II A



DURO  
PLAST

## Benefits

- **High lateral stiffness**
- Retains shape at elevated temperatures
- High penetration resistance and impact toughness
- Chemical resistant
- Highly resistant to aging (long service life)

# MINE RESCUE TEAM<sup>HELMET</sup>





# MINER'S HELMET

## MINER ANTI STATIC

# MINE RESCUE TEAM HELMET

Certification	DIN EN 397			DIN EN 397			DIN EN 397		
	▪ Electrical insulation according to DIN EN 397			▪ Anti-static according to DIN EN 13463 ▪ Tested up to explosion groups I and II A			▪ Lateral deformation (LD)		
Protective properties	internal equipment								
	I/80 B-R			I/80 B-R			I/79 G-R		
	–			–			–		
	6 point			6 point			6 point		
	with screw closure			with screw closure			with screw closure		
	–			–			–		
	–			–			real leather		
	Special			Special			Standard		
	2 point			2 point			4 point		
	Variant type	I/80 B			I/80 B			I/79 G	
Version	without screw closure			without screw closure			without screw closure		
Series	Helmet features								
	▪ hole in visor ▪ headtorch bracket ▪ cable loop			▪ hole in visor ▪ headtorch bracket ▪ cable loop			▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film		
	▪ Electrical insulation according to DIN EN 50365 ▪ all-round reflective film			–			▪ side ventilation (adjustable) ▪ all-round reflective film		
	▪ chin strap ▪ sweat bands ▪ reflective film			▪ chin strap ▪ sweat bands			▪ chin strap ▪ sweat bands ▪ reflective film		
	version								
Size	1	2	3	1	2	3	1	2	3
Head circumference	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
Colours	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> <div>custom colours</div>	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div>custom colours</div>	–	<div><div></div> RAL 2009</div>	–
Branding	hot embossed/screen printed			hot embossed/screen printed			–		
Item Size	Side 9 × 3 cm			Side 9 × 3 cm			–		–
Shape	parameter								
	straight			straight			straight		
	ABS-copolymer			ABS-copolymer			UP-GF /Polyester fibreglass)		
	approx. 410 g (size 2)			approx. 410 g (size 2)			approx. 400 g		

A construction site at sunset. A large crane is lifting a long, dark beam into the air. The sky is a mix of blue and orange, with some clouds. In the background, there are various construction structures and materials.

# CONSTRUCTION AND CIVIL ENGINEERING.

Higher and higher.

SCHUBERTH safety helmets - head protection for professionals: Whilst the MASTERGUARD impresses with proven functions and the optional integrated eye protection screen, the EuroGuard adds to its modern design, with optimised adjustable ventilation and innovative finishing touches. Last but not least, the attractive price to quality ratio makes both helmets indispensable companions.





## EUROGUARD MASTERGUARD

### BER 80 GLOWSHIELD

This luminous helmet (page 40) is ideally suited as a visitors' helmet for the **construction and civil engineering** sector.

## APPLICATIONS

- mainstream construction
- construction-related industries



# SCHUBERTH



## Benefits

- **Protective property down to –20°C**  
for use in low temperatures (e.g. outdoors in very cold conditions)
- Optional: **Protective property down to –30°C**  
For use in very low temperatures (e.g. cold storage freezers)
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- side ventilation (adjustable)
- eco-leather sweatband
- rain gutter



# EUROGUARD

### additional benefits

- **Increased lateral strength** due to double-wall internal profile
- **Large printable areas** (for company logo etc.)
- **slightly lengthened neck section**
- **numerous colour variants**
- **Low weight** with optimised protective area



# MASTERGUARD

### additional benefits

- **Extensively proven construction safety helmet**
- **Large protective surface** due to helmet with extended neck section

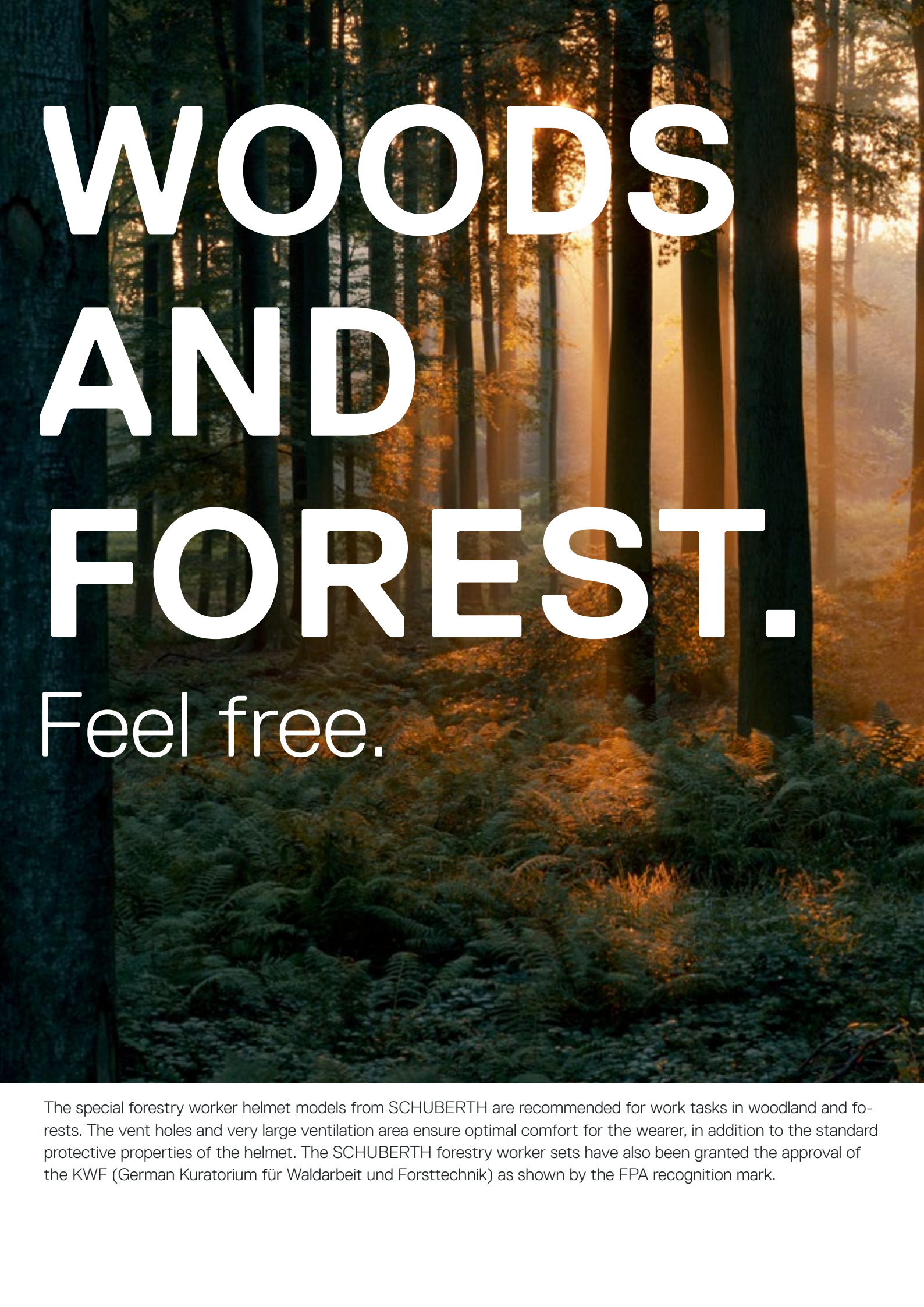




## EUROGUARD

## MASTERGUARD

Certification	DIN EN 397			DIN EN 397			
	▪ protective property down to –20 °C			▪ protective property down to –20 °C			
Protective properties	internal equipment						
	Type		I/79 GY-R	I/79-4G-R	I/79 G-R	I/79-4G-R	
	Special feature		–	–	–	–	
	Webbing		6 point	4 point	6 point	4 point	
	Version		with screw closure	with screw closure	with screw closure	with screw closure	
	Eye protection		–	–	possible	–	
	Sweat band		eco-leather	eco-leather	eco-leather	eco-leather	
	Cushion strip		–	–	–	–	
	Chin strap suspension		4 point	4 point	4 point	4 point	
	Variant type		I/79 GY	I/79-4G	I/79 G	I/79-4G	
Version		without screw closure	without screw closure	without screw closure	without screw closure		
Series	Helmet features						
	▪ 30 mm slots ▪ side ventilation (adjustable) ▪ rain gutter			▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ rain gutter			
	▪ Protective property down to –30 °C ▪ hole in visor ▪ headtorch bracket ▪ reflective film			▪ Protective property down to –30 °C ▪ without side ventilation ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ short visor ▪ all-round reflective film			
	▪ face protection ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ reflective film			▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			
Accessories (→Pages 47 – 53)							
Size	version						
	1		2	3	1	2	3
	52 – 56 cm		53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
	–		▪ RAL 9016 ▪ RAL 1023 ▪ RAL 5017 ▪ RAL 3020 ▪ RAL 6024 ▪ RAL 2009 ▪ RAL 7042 ▪ RAL 8007 ▪ RAL 9017 custom colours	–	–	▪ RAL 9016 ▪ RAL 1023 ▪ RAL 5017 ▪ RAL 3020 ▪ RAL 6024 ▪ RAL 2009 custom colours	–
Branding		hot embossed/screen printed			hot embossed/screen printed		
Item Size		Front 5 × 5 cm	Side 9 × 2.5 cm	Side 3 × 3 cm	Front 4.5 × 4.5 cm		Side 9 × 3 cm
parameter							
Shape		straight			with extended neck section		
Material		HDPE (High-Density Polyethylene)			HDPE (High-Density Polyethylene)		
Weight		approx. 340 g			approx. 365 g		



# WOODS AND FOREST.

Feel free.

The special forestry worker helmet models from SCHUBERTH are recommended for work tasks in woodland and forests. The vent holes and very large ventilation area ensure optimal comfort for the wearer, in addition to the standard protective properties of the helmet. The SCHUBERTH forestry worker sets have also been granted the approval of the KWF (German Kuratorium für Waldarbeit und Forsttechnik) as shown by the FPA recognition mark.





**EUROGUARD V+**

**FORESTRY  
WORKER SH 91**

## **APPLICATIONS**

- forestry work

SCHUBERTH forestry worker helmets are available in combination with various visor types and matching capsule ear defenders. This allows the forestry worker sets to be tailored to a broad range of situations requiring head, face and ear protection.



**SCHUBERTH**



## Benefits

- **Protective property down to –20°C**  
for use in low temperatures (e.g. outdoors in very cold conditions)
- Optional: **Protective property down to –30°C**  
For use in very low temperatures (e.g. cold storage freezers)
- **KWF approval (German forestry research/test institute)**
- optimised helmet comfort from additional vent holes
- Optional combination including face visor and hearing protection



THERMO  
PLAST

# EUROGUARD<sup>V+</sup>

### additional benefits

- **Increased lateral strength** due to double-wall internal profile
- **Improved force absorption** for side impacts due to special cushion strips (closed-pore)
- **with adjustable side ventilation**
- **Large printable areas** (for company logo etc.)
- **slightly lengthened neck section**
- **Low weight** with optimised protective area



# FORESTRY WORKER<sup>SH 91</sup>

### additional benefits

- **Optimum grip when bending down**  
from low-set adjustment band in neck area





# EUROGUARD V+ FORESTRY WORKER SH 91

Certification	DIN EN 397			DIN EN 397		
Protective properties	▪ protective property down to – 20 °C			▪ protective property down to – 20 °C		
	internal equipment					
Type	I/79 GY-R			I/91 G-R		
Special feature	–			–		
Webbing	6 point			6 point		
Version	with screw closure			with screw closure		
Eye protection	–			–		
Sweat band	real leather			real leather		
Cushion strip	Special			Standard		
Chin strap suspension	4 point			2 point		
Variant type	I/79 GY			I/91 G		
Version	without screw closure			without screw closure		
Series	Helmet features					
	▪ 30 mm slots ▪ vent holes ▪ side ventilation (adjustable) ▪ rain gutter			▪ 30 mm slots ▪ vent holes ▪ rain gutter		
	▪ Protective property down to – 30 °C ▪ hole in visor			▪ Protective property down to – 30 °C ▪ side ventilation (adjustable)		
	▪ face protection ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ face protection ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat band ▪ all-round reflective film		
Factory fitted option	▪ Protective property down to – 30 °C ▪ hole in visor			▪ Protective property down to – 30 °C ▪ side ventilation (adjustable)		
Accessories (→Pages 47 – 53)	▪ face protection ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ face protection ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat band ▪ all-round reflective film		
Size	version					
	1	2	3	1	2	3
	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
	–	<div><div></div> RAL 1023</div> <div><div></div> RAL 2009</div> custom colours	–	–	<div><div></div> RAL 1023</div> <div><div></div> RAL 2009</div> custom colours	–
Branding	hot embossed/screen printed			hot embossed/screen printed		
Item Size	Front 5 × 5 cm	Side 9 × 2.5 cm	Side 3 × 3 cm	Front 4.5 × 4.5 cm	Side 9 × 3 cm	
Shape	parameter					
	straight			straight		
	HDPE (High-Density Polyethylene)			HDPE (High-Density Polyethylene)		
Weight	approx. 380 g			approx. 375 g		

# SPECIAL SOLUTIONS.

For special requirements.

Tasks with special requirements need special solutions. Whether working at dizzying heights or in the dark, SCHUBERTH special solutions are specially developed and customised helmets.





**BER 80  
GLOWSHIELD**

**CLIMBING  
HELMET**

**SEWAGE  
WORKER HELMET**

**HEAD INJURIES  
PROTECTION  
HELMET**

**BASECAP FLEX-  
ACTIVE**

**BUMP CAP**

**PE HAT**

## **APPLICATIONS**

- working in low light conditions
- working in poor visibility
- visitors' helmet
- scaffolding
- tower climbers
- free-climbers
- drainage works
- for persons with head injuries
- automotive industry
- food industry
- meat processing operations



**SCHUBERTH**



## Benefits

- **protective property down to -20°C**  
for use in low temperatures (e.g. outdoors in very cold conditions)
- Optional: **Protective property down to -30°C**  
For use in very low temperatures (e.g. cold storage freezers)
- **luminous helmet shell material** for working in low light and low visibility conditions;  
approx. 12 hours glowing duration (luminance  $\geq 0.3$  mcd/m<sup>2</sup>)
- **ideal as a visitors' helmet**
- with side ventilation as standard
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- Large protective surface due to helmet with extended neck section
- Comprehensive selection of accessories



THERMO  
PLAST

## BER 80 GLOWSHIELD



## Benefits

- **High lateral stiffness**
- **Increased shock absorption** from integrated polystyrene inner shell
- Retains shape at elevated temperatures
- High penetration resistance and impact toughness
- Chemical resistant
- Highly resistant to aging (long service life)
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- with short visor and 4 point chin strap

DURO  
PLAST

## CLIMBING HELMET





# BER 80 GLOWSHIELD

# CLIMBING HELMET

Certification	DIN EN 397			DIN EN 397		
Protective properties	▪ Protective property down to – 20 °C			▪ Lateral deformation (LD)		
	internal equipment					
Type	I/79 G-R			I/79 GD-R		
Special feature	–			–		
Webbing	6 point			6 point		
Version	with screw closure			with screw closure		
Eye protection	–			possible		
Sweat band	real leather			real leather		
Cushion strip	Standard			Special		
Chin strap suspension	4 point			4 point		
Variant type	I/79 G			I/79 GD		
Version	without screw closure			without screw closure		
Series	Helmet features					
	▪ 16 mm double slots ▪ side ventilation (adjustable) ▪ rain gutter			▪ side ventilation (adjustable) ▪ short visor ▪ polystyrene inner shell ▪ 4 point chin strap		
	▪ Protective property down to – 30 °C ▪ integrated eye protection ▪ hole in visor ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film			▪ integrated eye protection (only helmet size 2) ▪ headtorch bracket ▪ cable loop ▪ all-round reflective film		
	▪ face protection ▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat bands ▪ all-round reflective film			▪ eye protection screen ▪ neck protection ▪ hearing protection ▪ chin strap ▪ sweat band ▪ all-round reflective film		
Factory fitted option						
Accessories (→Pages 47 – 53)						
Size	version					
	1	2	3	1	2	3
	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm
Colours	–	luminous	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> metallic coating custom colours	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div><div></div> RAL 2009</div> metallic coating custom colours	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> metallic coating custom colours
Branding	hot embossed/screen printed			pad printing		
Item Size	Front 4.5 × 4.5 cm	Side 9 × 3 cm		Front 2.3 × 3 cm	Side 9 × 3 cm	
Shape	parameter					
	with extended neck section			straight		
	HDPE (High-Density Polyethylene)			UP-GF /Polyester fibreglass)		
Weight	approx. 365 g			approx. 405 g		



## Benefits

- **protective property down to -20°C**  
for use in low temperatures (e.g. outdoors in very cold conditions)
- Optional: **Protective property down to -30°C**  
For use in very low temperatures (e.g. cold storage freezers)
- good visibility due to short visor
- Very comfortable to wear and secure fit due to ergonomically formed height-adjustable internal fittings
- Good impact damping due to HDPE technology
- low weight
- With headtorch bracket, cable loop and special 4 point chin strap



THERMO  
PLAST

# SEWAGE WORKERS HELMET



DURO  
PLAST

## Benefits

- **avoidance of pressure points on head**  
due to special internal equipment for people with head injuries (scars etc.)
- **available in 2 helmet shell sizes**
- high penetration resistance and impact toughness
- Chemical resistant
- Highly resistant to aging (long service life)

# HEAD INJURIES PROTECTION HELMET





# SEWAGE WORKERS HELMET

# HEAD INJURIES PROTECTION HELMET

Certification	DIN EN 397			–		
	▪ Protective property down to – 20 °C			–		
Protective properties	internal equipment					
	I/91 G-R			I/6 K		
	Special feature			–		
	Webbing			6 point		
	Version			with screw closure		
	Eye protection			–		
	Sweat band			real leather		
	Cushion strip			Standard		
	Chin strap suspension			–		
	Variant type			I/91 G		
	Version			without screw closure		
	Helmet features					
Series	▪ 30 mm slots ▪ side ventilation (adjustable) ▪ rain gutter ▪ short visor ▪ headtorch bracket ▪ cable loop ▪ special chin strap attached at 4 points by studs			▪ side ventilation (adjustable)		
	Factory fitted option			▪ Protective property down to – 30 °C		
Accessories (→Pages 47 – 53)	▪ hearing protection ▪ sweat band ▪ all-round reflective film			▪ face protection ▪ hearing protection ▪ all-round reflective film		
	version					
Size	1	2	3	1	2	3
	Head circumference	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm
Colours	–	■ RAL 1023 ■ RAL 2009	–	–	■ RAL 9016	■ RAL 9016
Branding	hot embossed/screen printed			–		
	Item Size			Side 9 × 3 cm		
parameter						
Shape	straight			with extended neck section		
Material	HDPE (High-Density Polyethylene)			UP-GF /Polyester fibreglass)		
Weight	approx. 390 g			approx. 400 g (size 2)		



## Benefits

- **protective property down to -20°C**  
for use in low temperatures (e.g. outdoors in very cold conditions)
- Perfect fit even during overhead workband and screw closure
- Large mesh fabric for ventilation
- Easy-to-clean polyester material
- Modern design
- A short visor allows a large field of vision



# BASECAP FLEXACTIVE

### additional benefits

- **Comfortable** to wear due to innovative fit concept and flexible 3D damping elements



## Benefits

- **bump cap** giving protection from light impact
- for all environments where safety helmets are not mandatory (e.g. automotive and food industries, meat processing)
- comfortable internal equipment
- secure fit
- low weight
- hygienic due to easy of cleaning

# BUMP CAP

### additional benefits

- approved in accordance with DIN EN 812



# PE HAT

### additional benefits

- internal equipment with 6 point webbing attachment





## BUMP CAP

## PE HAT

## BASECAP FLEXACTIVE

Certification	DIN EN 812			–			DIN EN 812			
	–			–			▪ Protective property down to –20 °C			
internal equipment										
Type	I/BC-G		I/BC		I/BC-G		I/7B		3D damping elements	
Special feature	webbing		plastic internals		webbing		plastic internals		Multi-part special foam	
Suspension	4 point		4 point		4 point		4 point		–	
Version	–		–		–		–		–	
Eye protection	–		–		–		–		–	
Sweat band	eco-leather		–		eco-leather		–		–	
Cushion strip	–		Special		–		–		–	
Chin strap suspension	2 point		2 point		2 point		2 point		–	
Helmet features										
Series	–			–			▪ Polyester material with ventilation			
Factory fitted option	▪ side ventilation (adjustable) ▪ all-round reflective film			▪ side ventilation (adjustable) ▪ all-round reflective film			–			
Accessories (→Pages 47 – 53)	▪ 2 point chin strap ▪ sweat band			▪ 2 point chin strap ▪ sweat bands			–			
version										
Size	1	2	3	1	2	3	1	2	3	
Head circumference	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 61 cm	59 – 63 cm	52 – 56 cm	53 – 62 cm	59 – 63 cm	
Colours	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div> <div>custom colours</div>	–	–	<div><div></div> RAL 9016</div> <div><div></div> RAL 1023</div> <div><div></div> RAL 5017</div> <div><div></div> RAL 3020</div> <div><div></div> RAL 6024</div>	–	–	<div><div></div> RAL 5010/ RAL 7000</div> <div><div></div> RAL 9005</div>	–	
parameter										
Material	HDPE (High-Density Polyethylene)			HDPE (High-Density Polyethylene)			Polyester			
Weight	approx. 220 g			approx. 220 g			approx. 140 g			

# EVERYTHING YOU NEED.

Just use it.

The right accessories and the matching internal equipment allow you to optimise your safety helmet for the current working environment. This is why SCHUBERTH offers a comprehensive product range. In addition you can create your helmet with your own corporate colour and company logo.

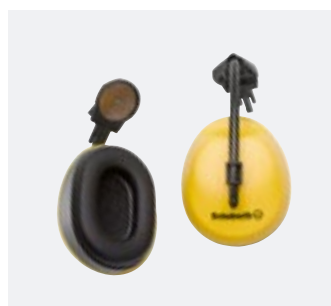


# HEARING PROTECTION



## SHP 28-C 30 mm

for combining with safety helmets with 30 mm slot system, tested and approved according to: CE EN 352-3: 2002, weight: 267 g, SNR value: 28 dB, size ranges: medium to large, comfortable pressure-free fit with foam-filled seal rings, height-adjustable, pivots at the joint.



## Capsule ear defenders MK8

capsule ear defenders with 16 mm inserts for mounting onto helmet, comfortable pressure-free fit with foam-filled seal rings, strong plastic arms centrally attached which can be locked out of the way when not being used, and when 16 mm slots are used, the ear defenders can be combined with a face protector.



## SHP 28-C 16 mm

for combining with safety helmets with 16 mm double slot system, tested and approved according to: CE EN 352-3:2002, weight: 267 g, SNR value: 28 dB, size ranges: medium to large, comfortable pressure-free fit with foam-filled seal rings, height-adjustable, pivots at the joint.



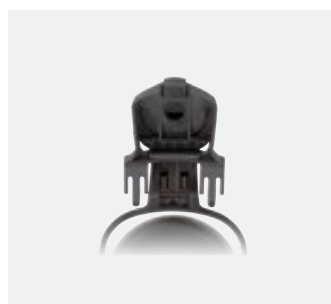
## SHP-C 30 mm

30 mm inserts available as an accessory. For helmets with 30 mm slot system.



## SHP 28-C clip 30 mm

for combining with safety helmets without slots, tested and approved according to: CE EN 352-3: 2002, weight: 267 g, SNR value: 28 dB, size ranges: medium to large, comfortable pressure-free fit with foam-filled seal rings, height-adjustable, pivots at the joint.



## SHP-C 16 mm

16 mm inserts available as an accessory. For helmets with 16 mm double slot system.



## SHP 28-C universal adapter

for combining with helmets with any of 30 mm slot system, 16 mm double slot system or without slots, tested and approved according to: CE EN 352-3: 2002, weight: 267 g, SNR value: 28 dB, size ranges: medium to large, comfortable pressure-free fit with foam-filled seal rings, height-adjustable, pivots at the joint.



## SHP-C clip 30 mm

Clamp attachment for helmets without slot system. Provides a 30 mm slot for attachment of capsule ear defenders with 30 mm insert.

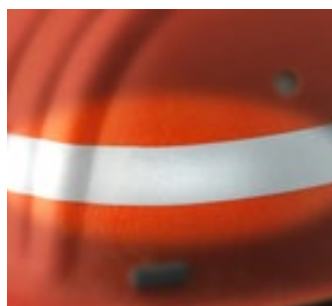
## EYE PROTECTION



### Eye protection screen

replacement protection screen for integrated eye protection according to DIN EN 166. Fits all SCHUBERTH helmets which already come from the factory equipped with attachment holes. Using attachment studs, exchange is simple and quick. **WARNING:** This eye protection is not designed to replace safety glasses!

## SAFETY

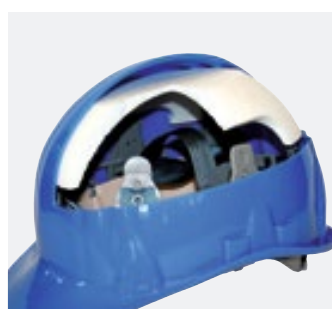


### Reflective film

reflective film, continuous, self-adhesive, 2 cm wide, available in silver, yellow, red and blue.

### Reflective film for EUROGARD

3-part reflective film, continuous, self-adhesive, 2 cm wide, available in silver



### Polystyrene inner shell

temperature-equalising expanded polystyrene inner shell, with high shock-absorption capacity for extreme loads.

## NECK PROTECTION



### Neck protector for attaching to helmet internals

highly flame-retardant split-leather neck protector for shielding neck area. Can be attached via a slit to the helmet internals.



### Neck protector which attaches with press-studs

highly flame-retardant split-leather neck protector for shielding neck area. Attachment to the helmet shell via press-studs, for helmets originally equipped with the relevant attachment points.



# FACE PROTECTION

## FACE SHIELDS



### Face shield SVW (wire) including SVC carrier

stainless steel woven wire mesh, coloured black to prevent dazzling:

- certified to EN 1731: 2006
- light transmission: 67 – 70%
- sizes: 347 × 183 × 1 mm
- weight without SVC carrier: 52 g
- number of openings/cm²: 22.9
- fits on helmets in combination with series SHP 28-C capsule ear defenders .



### “Energy Visor” for BOP Energy 3000

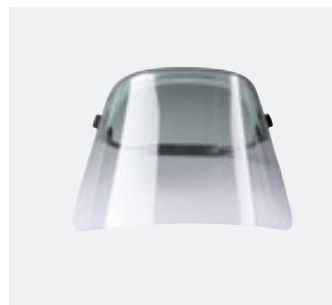
for combining with the BOP Energy 3000. For use in electrical installation tasks or energy supply environments, where a risk of arc flash is present. Grade 1, GS-ET-29



### SVN face shield (nylon) including SVC carrier

nylon mesh face shield:

- certified to EN 1731:2006
- light transmission: 58 – 61%
- sizes: 347 × 183 × 1 mm
- weight without SVC carrier: 36 g
- number of openings/cm²: 24.2
- fits on helmets in combination with series SHP 28-C capsule ear defenders .



### Electrician face protection

Plastic attachment fixture comprising plastic profile and rubber linkage, clear polycarbonate protective screen with rounded edges, VDE-approved with 1000 V marking, the ease of movement of the folding screen can be adjusted using the knurled knobs, fits all helmets with peak.



### SVP face shield (polycarbonate, clear) inc. SVC carrier

Polycarbonate face shield, certified to EN 166: 2001:

- temperature range: – 40 °C to +130°C
- sizes: 380 × 200 × 1 mm
- weight without SVC carrier: 82 g
- fits on helmets in combination with series SHP 28-C capsule ear defenders .



### ArcShield CL.1

For use in electrical installation tasks or energy supply environments, where a risk of arc flash is present. Combinable with multi-function adapter MFA-Tech and MFA-Duro. Approved according to GS-ET-29, arc flash protection class 1, light transmission class 0. Improved colour recognition according to EN 170.



### ArcShield CL.2

For use in electrical installation tasks or energy supply environments, where a risk of arc flash is present. Combinable with multi-function adapter MFA-Tech and MFA-Duro. Approved according to GS-ET-29, arc flash protection class 2, light transmission class 0. Multifunktionsadaptern MFA-Tech und MFA-Duro.Improved colour recognition according to EN 170. Available with black and transparent chin guard. Different levels of protection up to < 25 cal / cm².



### Electrician face protection for Cross®Line

Clear polycarbonate protective screen with rounded edges. VDE-approved with 1000 V marking. Tested according to DIN EN 166 and DIN EN 170 as well as GS-ET-29 (2011).

## FACE SHIELD CARRIERS



### Face shield carrier VP1

Attachment fixture for protective screens, fits all helmets with peak, close-fitting aluminium profile around helmet screen with concealed tension spring, clicks into 4 positions, high temperature material, protective screens attach via toggle lock.



### Face shield carrier VP2

Attachment fixture for protective screens, fits all helmets with peak, close-fitting blue plastic profiles with rubber cord, the ease of movement of the folding part can be adjusted using the knurled knobs, protective screens attach via toggle lock, suitable for tasks involving aggressive liquids for example.



### Face shield carrier RU

Attachment fixture for special heat veil, robust aluminium profile construction, high temperature material, suitable for all thermo-setting polymer helmets with peak, attachment via covered tension spring, clicks into 4 positions, heat veil attached with twist locks.

## SHIELDS



### Acetate shield (heatproof)

Clear acetate face protection shield, fits with helmet carriers VP1 and VP2

- Temperature resistant to approx. +130 °C
- sizes: 500 × 200 × 1 mm
- Protection against exposure to dust, debris and splinters
- high transparency and good scratch resistance
- protection against aggressive liquids



### PC shield (heatproof)

Clear polycarbonate face protection shield, fits with helmet carriers VP1 and VP2

- Temperature resistant to approx. +130 °C
- sizes: 500 × 200 × 1 mm
- Protection against exposure to dust, debris and splinters



### PC face protection shield with mounting brackets

Clear 1 mm thick polycarbonate screen, with mounting brackets to allow attachment to all SCHUBERTH helmets with 16 mm double slot system

- sizes: 440 × 280 mm, 440 × 240 mm, 440 × 200 mm
- provide protection against debris, dust and splinters.

## VEIL



### Heat veil RU

Smooth wire mesh heat veil, very good absorption and reflection of radiant heat, dimensions approx. 500 × 300 mm, compatible with helmet carrier RU, rear side coated black, anti-dazzle.

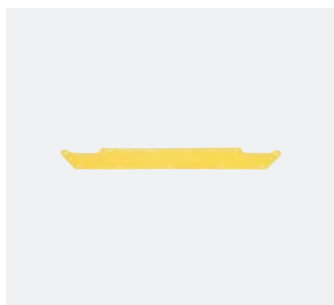


## SWEAT BANDS



### Real leather sweat band

The user's comfort is considerably improved by the sweatbands. A full sweatband made of Sumach-tanned sheep leather is available as an accessory.



### Eco-leather sweat band

The user's comfort is considerably improved by the sweatbands. A full sweatband made of Sumach-tanned sheep leather is available as an accessory.



### COOLMAX sweatband®

The sweatband feels dry due to the unique capability of the COOLMAX® fibres to absorb and transport moisture. In addition, the evaporation of the liquid causes a cooling effect. Both of these effects together contribute to a high degree of comfort for the wearer.



### Wellvitex Z+ sweatband

High tech fibre made of high-grade pharmaceutically pure zinc oxide with excellent properties: Wellvitex Z+ is odour-reducing, cooling, antibacterial and contributes to the protection and healing of stressed, irritated or even damaged skin. Certified to Ökotex 100 class 1.

## CHIN STRAPS



### Webbing chin strap with clip buckle

4 point attachment: chin straps ensure that the helmet grips safely and securely. The black 4 point 20 mm wide webbing chin strap with clip buckle can be combined with the helmet internals I/79 G, I/79 G-R, I/79 GD, I/79 GD-R, I/79 GY and I/79 GY-R.



### Webbing chinstrap with sliding buckle

chin straps ensure that the helmet grips safely and securely. they can be easily installed into any type of helmet internal equipment. This 2 point chinstrap is available in grey 17 mm wide webbing with a sliding buckle.



### Webbing chinstrap with sliding buckle and click buckle

chin straps ensure that the helmet grips safely and securely. they can be easily installed into any type of helmet internal equipment. This 2 point chinstrap is available in black 20 mm wide webbing with a sliding buckle and clip buckle.



### Leather chin strap with quick close buckle

chin straps ensure that the helmet grips safely and securely. they can be easily installed into any type of helmet internal equipment. The dark brown 12 mm wide leather chin strap has a sliding buckle as well as a speed closure for quick opening.



### Leather chinstrap with clamp buckle

chin straps ensure that the helmet grips safely and securely. they can be easily installed into any type of helmet internal equipment. This 2 point chinstrap is available in 12 mm wide black leather.

## CLIMATE



### Winter hood

knitted hood in wool-acrylic mix, with ear and neck cover, for cosy wearing under all helmets.



### Cooling Line head pad

maximum comfort during work, hook and loop fastener allows easy attachment to the helmet internals. Comfortable padded nylon exterior with Hyperkewl material inner, water repelling, polycotton elasticated and hook and loop fastener; one size.



### Cooling Line head/neck pad

heat and sun protection for head and neck during work tasks. hook and loop fastener allows easy attachment to the helmet internals. Comfortable padded nylon exterior with Hyperkewl material inner, water repelling, polycotton elasticated and hook and loop fastener; one size.



### Cooling Line wrist pad

reduce overall body temperature by applying to the wrists. Comfortable MESH polyester outer with Hyperkewl material inner hook and loop fastener for individual adjustability; one size.

## COMFORT



### comfort pad

comfort pad to fit on screw closure for additional comfort at the back of the head.

## ADAPTER



### MFA-Duro

Multi function adapter for all SCHUBERTH duroplastic helmets. Independent and solid assembly of Face- and hearing protection. Recommended for adaption to the BOP Energy 3000 in connection with ArcShield series.

## HYGIENE



### Protective paper liner

hygienic headcover, eg for factory visitors, white elasticated absorbent paper, can be worn under any safety helmet.



### hair net

hairnet made of nylon weave, with tieback, the stretchy material fits all head sizes.



# WEBBING HELMET INTERNALS

## Benefits

- flexible webbing carrier bands to improve wearing comfort
- head band made of skin-friendly supple plastic
- chin strap holder and height adjustment as standard

### I/79 GD-R I/79 GD



#### additional benefits

- suitable for use in hot operations
- ready for eye protection screen according to DIN EN 166

### I/79 GW I/79 GW-R



#### additional benefits

- tested to supplementary requirement + 150 °C of DIN EN 397
- attached to helmet shell by replaceable plastic and metal studs

### I/79 G-R I/79 G



#### additional benefits

- also with special cushioning strips for improved force absorption in the event of side and front impacts

### I/79 G-RF



#### additional benefits

- screw closure in flame retardant material
- with special cushioning strips for improved force absorption in the event of side and front impacts

## equipment

	I/79 GD-R	I/79 GW-R	I/79 G-R	I/79 G-RF
For helmets made of	Thermosetting polymer	Thermosetting polymer	Thermosetting polymer Thermoplastic polymer	Thermosetting polymer
Webbing	6 point	6 point	6 point	6 point
Version	with screw closure	with screw closure (flame retardant)	with screw closure	with screw closure (flame retardant)
Head band colour	Black	Black	Black	Black
Eye protection	possible	–	possible	–
Height-adjustable	yes	yes	yes	yes
Chin strap suspension	4 point	2 point	4 point	2 point
<b>Variant type</b>	I/79 GD	I/79 GW	I/79 G	–
Version	without screw closure	without screw closure	without screw closure	–
Head band colour	Grey	Grey	Grey	–

## optional accessories

<ul style="list-style-type: none"> <li>■ real leather sweat band</li> <li>■ eco-leather sweatband</li> <li>■ COOLMAX ®</li> <li>■ sweatbandWellvitex Z+ sweatband</li> </ul>	<ul style="list-style-type: none"> <li>■ real leather sweat band</li> <li>■ eco-leather sweatband</li> <li>■ COOLMAX ®</li> <li>■ sweatbandWellvitex Z+ sweatband</li> </ul>	<ul style="list-style-type: none"> <li>■ real leather sweat band</li> <li>■ eco-leather sweatband</li> <li>■ COOLMAX ®</li> <li>■ sweatbandWellvitex Z+ sweatband</li> </ul>	<ul style="list-style-type: none"> <li>■ real leather sweat band</li> <li>■ eco-leather sweatband</li> <li>■ COOLMAX ®</li> <li>■ sweatbandWellvitex Z+ sweatband</li> </ul>
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## for helmets models

standard equipment depending on model

	real leather	real leather	real leather	eco-leather	real leather	real leather
Sweat band	real leather	real leather	real leather	eco-leather	real leather	real leather
Cushion strip	Standard	Standard	Standard	Standard	Special	Special
	<ul style="list-style-type: none"> <li>■ BOP</li> <li>■ BOP S PRO</li> <li>■ BOP R</li> <li>■ BOP 74 R</li> <li>■ SUP</li> <li>■ BEN</li> <li>■ BEN R</li> <li>■ BEN 74R</li> <li>■ mine rescue team helmet</li> <li>■ high climber helmet</li> </ul>	<ul style="list-style-type: none"> <li>■ BOP</li> <li>■ BOP S PRO</li> <li>■ BOP R</li> <li>■ BOP 74 R</li> <li>■ SUP</li> <li>■ BEN</li> <li>■ BEN 74 R</li> </ul>	<ul style="list-style-type: none"> <li>■ BER S</li> <li>■ BER 80</li> <li>■ BER80</li> <li>■ Glow-shield</li> <li>■ Electrician S</li> <li>■ Electrician 80</li> </ul>	<ul style="list-style-type: none"> <li>■ Architect 80</li> </ul>	<ul style="list-style-type: none"> <li>■ BES/ABS</li> <li>■ anti static helmet</li> </ul>	<ul style="list-style-type: none"> <li>■ BOP ENERGY 3000</li> </ul>

## I/79 GY-R I/79 GY



### additional benefits

- specially for EUROGUARD helmets

## I/79 4-G-R I/79 4-G



### additional benefits

- 4 point webbing strap

## I/91 G I/91 G-R



### additional benefits

- extra low neck band for secure grip

## I/BC-G



### additional benefits

- specially for bump cap and PE hat

### equipment

	I/79 GY-R	I/79 4-G-R	I/91 G-R	I/BC-G
For helmets made of	Thermosetting polymer	Thermosetting polymer	Thermosetting polymer Thermoplastic polymer	Thermoplastic polymer
Webbing	6 point	4 point	6 point	4 point
Version	with screw closure	with screw closure	with screw closure	–
Head band colour	Black	Black	Black	Grey
Eye protection	–	–	–	–
Height-adjustable	yes	yes	yes	yes
Chin strap suspension	4 point	4 point	2 point	2 point
<b>Variant type</b>	I/79 GY	I/79 4-G	I/91 G	–
Version	without screw closure	without screw closure	without screw closure	–
Head band colour	Grey	Grey	Grey	–

### optional accessories

<ul style="list-style-type: none"> <li>■ real leather sweat band</li> <li>■ eco-leather sweatband</li> <li>■ COOLMAX®</li> <li>■ sweatbandWellvitex Z+ sweatband</li> </ul>	<ul style="list-style-type: none"> <li>■ real leather sweat band</li> <li>■ eco-leather sweatband</li> <li>■ COOLMAX®</li> <li>■ sweatbandWellvitex Z+ sweatband</li> </ul>	<ul style="list-style-type: none"> <li>■ real leather sweat band</li> </ul>	<ul style="list-style-type: none"> <li>■ eco-leather sweatband</li> </ul>
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### for helmets models

standard equipment depending on model

	eco-leather	real leather	eco-leather	real leather	eco-leather
Sweat band	Standard	Special	Standard	Standard	–
Cushion strip	<ul style="list-style-type: none"> <li>■ EUROGUARD</li> </ul>	<ul style="list-style-type: none"> <li>■ EUROGUARD V+</li> </ul>	<ul style="list-style-type: none"> <li>■ EUROGUARD 4</li> <li>■ Architect 80/4</li> </ul>	<ul style="list-style-type: none"> <li>■ forestry worker SH 91</li> <li>■ drainage worker helmet</li> </ul>	<ul style="list-style-type: none"> <li>■ bump cap</li> <li>■ PE hat</li> </ul>



# PLASTIC INTERNAL EQUIPMENT

## Benefits

- head band made of skin-friendly supple plastic - for export area
- chin strap holder and height adjustment as standard
- Size range adjustable from 52 cm to 63 cm - including half sizes
- partially available with continuously adjustable comfort screw closure

### I/80 I/80-R



#### additional benefits

- Easy cleaning

### I/80 D I/80 D-R



#### additional benefits

- Easy cleaning
- suitable for use in hot operations

### I/80 Y I/80 Y-R



#### additional benefits

- specially for EUROGARD helmets

equipment			
For helmets made of	I/80	I/80 D	I/80 Y
	Thermoplastic polymer	Thermosetting polymer	Thermoplastic polymer
	Suspension	6 point	6 point
	Version	–	–
	Head band colour	Grey	Grey
	Eye protection	–	–
	Height-adjustable	yes	yes
Chin strap suspen- sion	2 point	2 point	2 point
	Variant type	I/80-R	I/80 D-R
	Version	with screw closure	with screw closure
Head band colour	Black	Black	Black
	optional accessories		
	■ real leather sweat band ■ eco-leather sweatband ■ COOLMAX® ■ sweatbandWellvitex Z+ sweatband	■ real leather sweat band ■ eco-leather sweatband ■ COOLMAX® ■ sweatbandWellvitex Z+ sweatband	■ real leather sweat band ■ eco-leather sweatband ■ COOLMAX® ■ sweatbandWellvitex Z+ sweatband
	for helmets models		
Sweat band	standard equipment depending on model		
	–	–	–
	Cushion strip	Standard	Standard
	■ Electrician 80 ■ Electrician S ■ BER 80 ■ BER 80 Glowshield ■ BER S	■ BOP ■ BOP R ■ BEN ■ BEN 74 R	■ EUROGUARD

## I/80 B I/80 B-R



### additional benefits

- for use in mining
- Optimised shock-absorption from Impact Tube Technology
- also with special cushioning strips for improved force absorption in the event of side and front impacts

## I/BC



### additional benefits

- specially for bump cap
- Easy cleaning
- with additional cushioning strips

## I/7B



### additional benefits

- specially for PE hat
- Easy cleaning

equipment			
	I/80 B	I/BC	I/7B
For helmets made of	Thermoplastic polymer	Thermoplastic polymer	Thermoplastic polymer
Suspension	6 point	4 point	4 point
Version	–	–	–
Head band colour	Grey	White	White
Eye protection	–	–	–
Height-adjustable	yes	yes	yes
Chin strap suspension	2 point	2 point	2 point
<b>Variant type</b>	I/80 B-R	–	–
Version	with screw closure	–	–
Head band colour	Black	–	–
optional accessories			
	<ul style="list-style-type: none"> <li>■ real leather sweat band</li> <li>■ eco-leather sweatband</li> <li>■ COOLMAX®</li> <li>■ sweatbandWellvitex Z+ sweatband</li> </ul>	–	–
for helmets models			
	standard equipment depending on model		
Sweat band	–	–	–
Cushion strip	Special	Special	–
	<ul style="list-style-type: none"> <li>■ miners helmet</li> <li>■ anti static miners helmet</li> </ul>	<ul style="list-style-type: none"> <li>■ bump cap</li> </ul>	<ul style="list-style-type: none"> <li>■ PE hat</li> </ul>



# GLOSSARY

## MATERIAL SCIENCE



### THERMOPLASTIC

Thermoplastic materials are plastics which can be brought into a plastic state at a certain temperature, and formed using various methods. The forming process is purely physical. The plastic exists as granules or powder.

#### HDPE (High-Density Polyethylene)

Thermoplastic polymers for cold operational areas, dyed in the relevant colour are heated into a plastic state and created in the required helmet shape in an injection moulding machine.

#### ABS (ABS-copolymer)

Thermoplastic ABS-copolymer is suitable for use in cold operational areas and has especially good abrasion resistance. The material contains a UV stabiliser and is available as granules. The material is heated into a plastic state and created in the required helmet shape in an injection moulding machine.



### THERMOSETTING POLYMER

Thermosetting polymers comprise several components and are cured at high pressure and temperature in a pressing process. Curing is a chemical reaction, where the plastic achieves its final strength.

#### UP-GF (Polyester fibreglass)

thermosetting polymer material. At high temperature and pressure to Helmet crown of dyed, hardened glass fibre - polyester composite. Very good aging and UV-resistance. Good shape retention when exposed to heat.

#### PF-SF (textile phenol polymer resin)

thermosetting polymer material. Helmet crown hardened under the influence of heat and pressure, with textile-fibre reinforced polymer resin, naturally yellow-brown in colour. Very good aging and UV-resistance. Good shape retention when exposed to heat.

## KEY TO SYMBOLS



**Electrical insulation according to DIN EN 50365** for work involving live electricity or in close proximity to live equipment up to 1000V AC or 1500 V DC.



**electrical insulation according to DIN EN 397** protection against short-term inadvertent contact with live conductors up to 440 volts AC.



**anti static according to DIN EN 13463** electrostatically safe and suitable for approved uses in explosion hazard environments in all zones for explosion groups I and II A



**protective properties up to +150 °C according to DIN EN 397** for tasks carried out in high ambient temperatures (e.g. furnaces).



**Protective properties against metal spatter according to DIN EN 397** For use in tasks involving molten metal.



**Protective property against lateral deformation according to DIN EN 397** Increased lateral stiffness for use in areas where high lateral forces may occur.



**Protective property down to –30°C according to DIN EN 397** For use in very low temperatures (e.g. cold storage freezers)



**Protective property down to –20°C according to DIN EN 397** for use in low temperatures (e.g. outdoors in very cold conditions)

## MANUFACTURING DATE

the following marking types are present on the underside of the helmet peak:



number in the centre = year of manufacture / outer numbers = months/quarters with arrow pointing to month/quarter of manufacture

# CUSTOMISATION

In addition to the standard SCHUBERTH colours, it is possible to specify corporate colours as the helmet shell colour. Thermosetting polymer helmet shells can be specified with a choice of metallic or special coatings. Thermoplastic polymer helmet shells can be specified in additional colours.

## metallic coating


For the thermosetting polymer helmets BOP, BOP R, BOP 74 R and SUP as well as the helmets BEN, BEN R and BEN 74 R, we offer an optional metallic coating. This ensures additional heat reflection and greater internal comfort for the wearer, especially in hot operational areas.

## special coating


Thermosetting polymer helmet shells can be coated with a heat-hardened special coating. This is often used on the natural-coloured PF-SF (BEN, BEN R and BEN 74 R helmet models, which have a very uniform surface. The UP-GF helmets BOP, BOP R and BOP 74 R, which are nearly all available in the standard colours white, yellow, blue, red, green and orange, can also be coated in custom colours on customer request. Coatings can only be applied in RAL colour shades.

## standard colours


Overview of SCHUBERTH standard colours is model-dependent. For production reasons, all colours may vary slightly from the standard RAL shades.




**RAL 9016** Traffic White




**RAL 1023** Traffic Yellow




**RAL 5017** Traffic Blue




**RAL 3020** Traffic Red




**RAL 6024** Traffic Green




**RAL 2009** Traffic Orange



**RAL 7042** Traffic Grey A



**RAL 8007** Fawn Brown



**RAL 9017** Traffic Black

# BRANDING

SCHUBERTH offers its customers the possibility to add logos to helmets using various processes. Depending on the process, the size and position are shown in the table.

## pad printing (for thermosetting polymer helmets)

The pad printing process is a colour application process for thermosetting polymer helmets. The marking colour is applied to the helmet surface using a prepared printing block. This process ensures a durable and lasting marking, which can be done in 4 colours.

## hot stamping (for thermoplastic helmets)

During the hot stamping process, the desired marking is stamped into the helmet shell under pressure and heat using a brass stamping block and stamping film, becoming permanent and weather-resistant. The (maximum 2) colours are determined by the stamping foil, which we have in a large range of colours.

## screen printing (for thermoplastic helmets)

As well as an accurate colour representation, the screen printing process also allows colour gradients to be depicted. Up to 5 colours can be printed - on top of each other if needed. This process ensures a durable and lasting marking.

## stickers (for thermoplastic and thermosetting polymer helmets)

The required stickers can be supplied by SCHUBERTH or directly by the customer. Please note however, that for ABS-copolymer helmets, only stickers with ABS-safe adhesives may be used. If in doubt, please seek advice from the label manufacturer. The size of the sticker will be determined by the curvature and profile of the helmet.

## overview of marking areas

	front	side	rear	helmet models
Hot embossed/screen printed	2.3 x 3 cm	9 x 3 cm	–	<ul style="list-style-type: none"><li>BES/ABS</li><li>Anti-static helmet</li><li>BER S</li><li>Electrician S</li></ul>
Hot embossed/screen printed	4.5 x 4.5 cm	9 x 3 cm	–	<ul style="list-style-type: none"><li>BER 80</li><li>Electrician 80</li><li>Architect 80</li><li>Forestry worker SH 91</li><li>BER 80 GlowShield</li><li>bump cap</li><li>PE hat</li></ul>
Hot embossed/screen printed	5 x 5 cm	9 x 2.5 cm	3 x 3 cm	<ul style="list-style-type: none"><li>EuroGuard</li><li>EuroGuard V+</li></ul>
Hot embossed/screen printed	–	9 x 3 cm	–	<ul style="list-style-type: none"><li>miner's helmet</li><li>anti-static miner</li><li>Drainage worker's helmet</li></ul>
Pad printing	2.3 x 3 cm	9 x 3 cm	–	<ul style="list-style-type: none"><li>BOP</li><li>BOP S Pro</li><li>BOP R</li><li>BEN</li><li>BEN R</li><li>BOP Energy 3000</li><li>high climber helmet</li></ul>
Pad printing	4 x 4 cm	9 x 3 cm	–	<ul style="list-style-type: none"><li>BOP 74 R</li><li>SUP</li><li>BEN 74 R</li></ul>