



PFLÜGER - SAFETY

SPECIAL SOLUTIONS.

For special needs.



BER 80
GLOWSHIELD

CLIMBING
HELMET

HEAD INJURIES
PROTECTION
HELMET

BUMP CAP

PE-HAT

APPLICATIONS

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



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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 $\geq 0.3 \text{ mod/m}^2$)
- 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



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



CLIMBING HELMET



BER 80 GLOWSHIELD

CLIMBING HELMET

Certification	DIN EN 397	DIN EN 397	
	Protective property down to -20°C	Lateral deformation (LD)	
Internal equipment			
Type	I/79 G-R	I/79 GD-R	
Special feature	-	-	
Wobbling	6 point	6 point	
Version	With screw cap	With screw cap	
Eye protection	Possible	Possible	
Sweatband	Real leather	Real leather	
Cushion strip	Standard	Special	
Chin strap suspension	2 and 4 point	2 and 4 point	
Helmet features			
Serie	<ul style="list-style-type: none"> 16mm Double slots Rain gutter Side ventilation (adjustable) 	<ul style="list-style-type: none"> 4 point Chin strap Ohmo Helmstern Side ventilation (adjustable) Styropor-Innenschale 	
	Factory fitted option	<ul style="list-style-type: none"> Integrated eye protection Cable loop Headtorch bracket Hole in visor Protective property down to -30°C All-round reflective film 	<ul style="list-style-type: none"> Integrated eye protection (only helmet size 2) Cable loop Headtorch bracket All-round reflective film
Accessories (\rightarrow Page 54-51)	<ul style="list-style-type: none"> Eye protection screen Hearing protection Face protection Chin strap Neck protection Sweatbands All-round reflective film 	<ul style="list-style-type: none"> Eye protection screen Hearing protection Chin strap Neck protection Sweatband All-round 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	- luminous -	- RAL 9016 -	
Branding	Pad printing		
Item Size	Front 4,5x4,5cm	Side 9x3cm	Front 2,3x3cm Side 9x3cm
	Parameter		
Shape	Straight with rain gutter and extended neck section		Straight
Material	PE (Polyethylen)		UP-GF (Polyester fibreglass)
Weight	approx. 365g		approx. 405g



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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



HEAD INJURIES PROTECTION HELMET

Certification	-		
Protective properties	-		
Internal equipment			
Type	V/6 K		
Special feature	Special foam internal equipment		
Webbing	-		
Visor	-		
Eye protection	-		
Sweatband	-		
Cushion strip	-		
Chin strap suspension	-		
Helmet features			
Serie	■ Side ventilation (adjustable)		
Factory fitted option	-		
Accessories (+Page 54-61)	<ul style="list-style-type: none"> ■ Hairing protection ■ Face protection ■ All-round reflective film 		
Version			
Size	1	2	3
Head circumference	52-56cm	53-61cm	69-63cm
Colours	-	RAL 9006	RAL 9016
Branding	-		
Item Size	-		
Parameter			
Shape	Straight with rain gutter and extended neck section		
Material	UP-GF (Polyester fiberglass)		
Weight	approx. 400g (Size 2)		



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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



BUMP CAP

PE HAT

BASECAP FLEXACTIVE

Certification	DIN EN 812			-			DIN EN 812					
Protective properties	-			-			<ul style="list-style-type: none"> Protective property down to -20°C 					
Internal equipment												
Type	I/BC-G	I/BC	I/BC-G	I/7B	I/7B	I/7B	3D damping elements					
Special feature	Wobbling	Plastic internals	Wobbling	Plastic internals	Wobbling	Plastic internals	Multi-part special foam					
Wobbling	4 point	4 point	4 point	4 point	4 point	4 point	-					
Version	-	-	-	-	-	-	-					
Eye protection	-	-	-	-	-	-	-					
Sweatband	Eco leather	-	Eco leather	-	-	-	-					
Cushion strip	-	Special	-	-	-	-	-					
Chin strap suspension	2 point	2 point	2 point	2 point	2 point	2 point	-					
Helmet features												
Series	-			-			<ul style="list-style-type: none"> Polyester material with ventilation 					
Factory fitted option	<ul style="list-style-type: none"> Side ventilation (adjustable) 			<ul style="list-style-type: none"> Side ventilation (adjustable) 			-					
Accessories (-> Page 54-61)	<ul style="list-style-type: none"> 2 point Chin strap Sweatbands 			<ul style="list-style-type: none"> 2 point Chin strap Sweatbands 			-					
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 - 56cm	53 - 61cm	59 - 63cm			
Colours	<ul style="list-style-type: none"> RAL 9016 RAL 1023 RAL 6017 RAL 3020 RAL 6024 Sonderfarben 			-			<ul style="list-style-type: none"> RAL 9016 RAL 1023 RAL 6017 RAL 3020 RAL 6024 			<ul style="list-style-type: none"> RAL 6019 RAL 7000 RAL 9005 		
Parameter												
Material	PE (Polyethylen)			PE (Polyethylen)			Polyester					
Weight	approx. 220			approx. 220 g			approx. 140g					



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HEARING PROTECTION



Adapter for Peltor ear muffs
399000550
Adapters are made Peltor ear muffs. Dismantle the screw and adapter of the Peltor ear muff and replace it by the SCHUBERTH adapter for Peltor ear muffs.

Please contact us for further information about the hearing protection via mail (industrial-safety@schubert.com)

NECK PROTECTION



Neck protector for attaching to helmet internals
9010006400
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
9010006415
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.



UV Neck protection
9010006401 white
9010006402 signal orange
Reduction in the risk of skin cancer when working outdoors. Available in white and bright orange. Compatible with all SCHUBERTH industrial safety helmets. Dirt and water repellent

EYE PROTECTION



Eye protection screen CrossLine
9000907090 including assembly
9000007090 as spare part
Replacement protection screen for integrated eye protection for the SCHUBERTH CrossLine helmets. Using attachment studs, exchange is simple and quick.
WARNING: This eye protection is not designed to replace safety glasses!



Eye protection screen
9000907088 including assembly
9000007088 as spare part
Replacement protection screen for integrated eye protection for the 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!

HYGIENE



Protective paper liner
9049100080
m Spender zu 100 Stück
Hygienic headcover, eg for factory visitors, white elasticated absorbent paper, can be worn under any safety helmet.



Hair net
9049100100
Helmet made of nylon weaves, with tieback, the stretchy material fits all head sizes.

VISIBILITY



Reflective film
9000909200
Reflective film, continuous, self-adhesive, 2 cm wide, available in silver.



Reflective film for EUROGARD
9000909215
3-part reflective film, continuous, self-adhesive, 2 cm wide, available in silver



Reflective film Basic for CrossLine
2990000010



Reflective film Advanced for CrossLine
2990000015

SAFETY



Polystyrene inner shell
9000906541
Temperature-equalising expanded polystyrene inner shell, with high shock-absorption capacity for extreme loads.

LIGHTS



Flashlight
SH-UK 2AA eLED ET
9049100118



Flashlight
SH-UK 3AAA CPO TS
9049100124



Flashlight attachment LHS
3990000515



Flashlight
SH-UK 3AAA Vision
9049100119
Black, with batteries and adapters with front connection

NOTE
Ex approved according to the newest european (ATEX) norms



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FACE PROTECTION

FACE SHIELDS



SVP face shield (polycarbonate, clear) inc. SVC carrier
9049109050
Polycarbonate face shield, zertifiziert nach EN 166: 2001

- Temperature range: -40°C to +130°C
- Size: 380x200x1mm
- Weight without SVC carrier: 82 g
- Fits on helmets in combination with series SHP 28- C capsule ear defenders



Face shield SVW (wire) including SVC carrier
9049109040
stainless steel woven wire mesh, coloured black to prevent dazzling:

- certified to EN 173: 2006
- light transmission: 67 - 70%
- Size: 347 x 183 x 1mm
- 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.



Electrician face protection for Cross*Line
9049108165
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); arc flash protection class 1.



ArcShield CL.2
9049108221 with transparent chin protection & 9049108222, 9049108223 as well as 9049108224 with black chin protection
For use in electrical installation tasks or energy supply environments, where a risk of arc flash is present. Combinable with multi-function adapter MFA-Duro on the BOP ENERGY 3000. Approved according to GS-ET-29, arc flash protection class 2, light transmission class 0. Improved colour recognition according to EN 170. Available with black and transparent chin guard. Different levels of protection up to < 25 cal/cm².

ADAPTER



MFA-Duro
199000100
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.



ArcShield Balaclava HE 45 cal.
9049108226
For use in electrical installation tasks or energy supply environments, where a risk of arc flash is present. The balaclava is used as a head cover under the helmet and arc shield for additional protection.

FACE SHIELD CARRIERS



Face shield carrier VP 1
9049108300
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 VP 2
9049108400
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
904108520
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



PC face protection shield with mounting brackets
9012007082
Clear 1mm thick polycarbonate screen, with mounting brackets to allow attachment to all SCHUBERTH helmets with 16 mm double slot system

- Size: 440 x 280 mm, 440 x 240 mm, 440 x 200 mm
- Provide protection against debris, dust and splinters.



PC shield (heatproof)
9049108540
Clear polycarbonate face protection shield, fits with helmet carriers VP1 and VP2

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



Acetate shield (heatproof)
9049108510
Clear acetate face protection shield, fits with helmet carriers VP1 and VP2

- Temperature resistant to approx +130°C
- Size: 500 x 200 x 1mm
- Protection against exposure to dust, debris and splinters
- High transparency and good scratch resistance
- Protection against aggressive liquids

HEAT SHIELD



Heat veil RU
9049108530
Smooth wire mesh heat veil, very good absorption and reflection of radiant heat, dimensions approx. 500 x 300 mm, compatible with helmet carrier RU, rear side coated black, anti-dazzle.



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SWEATBANDS

MOQ 25 pcs.



Real leather sweatband
9040746310
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 sweatband
9040746000
The user's comfort is considerably improved by the sweatbands. A full sweatband made of Sumach-tanned sheep leather is available as an accessory.



Wellvitex Z+ sweatband
2000000399
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 Okotex 100 class 1.

KOMFORT



Comfort pad
3990000700
Comfort pad to fit on screw closure for additional comfort at the back of the head.

CHIN STRAPS

MOQ 15 pcs.



Webbing chin strap with clip buckle 4 point attachment
9000005560
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
9000005500
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
9020000200
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
9000005610
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
9000005300
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.

KLIMA



Winter hood
9049100031
Knitted hood in wool-acrylic mix, with ear and neck cover, for cosy wearing under all helmets



Cooling Line head pad
9049100027
Maximum comfort during work, hook and loop fastener allows easy attachment to the helmet internals. Comfortable padded nylon exterior with Hyperkawl material inner, water repelling, polycotton elasticated and hook and loop fastener; one size.



Cooling Line head/neck pad
9049100028
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 Hyperkawl material inner, water repelling, polycotton elasticated and hook and loop fastener; one size.



Cooling Line wrist pad
Reduces overall body temperature by applying to the wrists. Comfortable MESH polyester outer with Hyperkawl material inner hook and loop fastener for individual adjustability; one size.

ADAPTER



MFA-Duro
1990000100
Multifunction 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.



Flashlight connection LHS
3990000515
Adapter for the connection of flashlight to helmets with the MFA system



Adapter for Peltor ear protection
3990000550
Adapter for the connection of Peltor ear muffs to helmets with the MFA system



SHP-C MFA Adapter for helmets with MFA system
9049105047
Adapter for the connection of SHP-C ear muffs to helmets with MFA system



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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
- Optimal head size adjustment due to wheel ratchet

I/79 GD-R



Additional benefits

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

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



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

I/79 GY-R



Additional benefits

- Specially for EUROGUARD helmets

I/79 4-G



Additional benefits

- 4 point webbing strap

I/80 Y-R



Additional benefits

- Specially for EUROGUARD helmets

I/80 B-R



Additional benefits

- For use in mining
- Optimised impact absorption through Impact Tube technology
- With special cushioning strips for improved force absorption in the event of side and front impacts as standard

		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		2 and 4 point	2 and 4 point	2 and 4 point	2 and 4 point		
		Optional accessories					
		<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+ 	<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+ 	<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+ 	<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+ 		
		For helmet models					
		Standard equipment depending on model					
Sweatband		Real leather	Real leather	Real leather Eco leather	Walkitax Z+ Eco leather		
Cushion strip		Standard	Standard	Standard Spezial	- Spezial		
		<ul style="list-style-type: none"> BOP BOP S PRO BOP R BOP 74 R SUP BEN BEN R BEN 74 R Mini rescue team helmet High climber helmet 	<ul style="list-style-type: none"> BOP BOP S PRO BOP R BOP 74 R SUP BEN BEN 74 R 	<ul style="list-style-type: none"> BER S BER 80 Glow-shield 	<ul style="list-style-type: none"> MASTER GUARD BES/ABS Anti-static helmet 	<ul style="list-style-type: none"> CROSS GUARD CROSS ELECTRIC 	<ul style="list-style-type: none"> BOP ENERGY 3000

		Equipment			
		I/79 GY-R	I/79 4-G	I/80 Y	I/80 B-R
For helmets made of		Thermosetting polymer	Thermosetting polymer	Thermoplastic polymer	Thermoplastic polymer
Webbing		6 point	4 point	6 point	6 point
Version		With screw closure	-	With screw closure	With screw closure
Head band colour		Black	Black	Black	Black
Eye protection		-	-	-	-
Height-adjustable		Yes	Yes	Yes	Yes
Chin strap suspension		2 and 4 point	2 and 4 point	2 and 4 point	2 and 4 point
Head band colour		Gray	Gray	Black	Black
		Optional accessories			
		<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+ 	<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+ 	<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+ 	<ul style="list-style-type: none"> Real leather sweatband Eco leather sweatband Sweatband Walkitax Z+
		For helmet models			
		standard equipment depending on model			
Sweatband		Eco leather	Real leather	Eco leather	-
Cushion strip		Standard	Spezial	Standard	- Spezial
		<ul style="list-style-type: none"> EUROGUARD 	<ul style="list-style-type: none"> EUROGUARD V+ 	<ul style="list-style-type: none"> EUROGUARD 4 MASTERGUARD/4 	<ul style="list-style-type: none"> EUROGUARD
					<ul style="list-style-type: none"> Minor helmet Anti-static helmet



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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/BC-G



Additional benefits

- Specially for bump cap and PE hat

I/BC



Additional benefits

- Specially for PE hat
- Easy cleaning
- With additional cushioning strips

I/7B



Additional benefits

- Specially for PE hat
- Easy cleaning

	Equipment		
	I/BC-G	I/BC	I/7B
For helmets made of	Thermoplastic polymer	Thermoplastic polymer	Thermoplastic polymer
Webbing	4 point	4 point	4 point
Version	-	-	-
Head band colour	Gray	White	White
Eye protection	-	-	-
Height-adjustable	Yes	Yes	Yes
Chin strap suspension	2 point	2 point	2 point
Head band colour	-	-	-
	Optional accessories		
	■ Sweatband Eco leather	-	-
	For helmet models		
	Standard equipment depending on model		
Sweatband	Eco leather	-	-
Cushion strip	-	Spaztel	-
	■ Bump cap ■ PE hat	■ Bump cap	■ PE hat





PFLÜGER - SAFETY

GLOSSARY

MATERIAL SCIENCE

THERMOPLAST
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.

PE (polyethylene) / **PP** (polypropylene)
 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.

DURO PLAST
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

III / 15 example for quarter and year of manufacture

Example for month and year of manufacture (January 2016)

Note:
 Example for labelling after entry into force of the the PPE regulation (EU) 2016/425
<https://eur-lex.europa.eu/legal-content/DE/ALL/?uri=CELEX%3A32016R0425>

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

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.

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. 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
2,3x3cm	9x3cm	-	<ul style="list-style-type: none"> ▪ BES/ABS ▪ Antistatikhelm
4,5x4,5cm	9x3cm	-	<ul style="list-style-type: none"> ▪ Meistergard ▪ BER B0 GlowShield ▪ Bump-Cap ▪ PE-Kappe
5x5cm	9x2,5cm	3x3cm	<ul style="list-style-type: none"> ▪ EuroGuard ▪ EuroGuard V+
-	9x3cm	-	<ul style="list-style-type: none"> ▪ Bergmanns-Helm ▪ Bergmann Antistatik
2,3x3cm	9x3cm	-	<ul style="list-style-type: none"> ▪ BOP ▪ BOP S Pro ▪ BOP R ▪ BEN ▪ BEN R ▪ BOP Energy 3000 ▪ Hochsteigerhelm
4x4cm	9x3cm	-	<ul style="list-style-type: none"> ▪ BOP 74 R ▪ SUP ▪ BEN 74 R
4x4cm bzw. 5x3cm	7x1,5cm	-	<ul style="list-style-type: none"> ▪ CrossGuard ▪ CrossElectric