

Certificate

of EU type-examination No. UE/194/2019/1437, edition 1

Name of the product:

Electrically Insulating Safety Helmet with Integrated Face Shield

Type (varieties):

BSD ErgoS Intec plus

Name and address of the manufacturer:

*BSD Bildungs- und Servicezentrum GmbH
Lutherstraße 33
01900 Großröhrsdorf
Germany*

***The product meets the applicable essential health and safety requirements
included in Regulation (EU) 2016/425 of the European Parliament and of the Council
of 9 March 2016***

Validity period: from 29 July 2019 to 28 July 2024

Head of the Centre
for Certification of Personal
Protective and Working Equipment

A. Stefko
Agnieszka Stefko M.Sc.(Eng.)

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signature of the certificate issuer's representative

Warsaw, date 29 July 2019

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Product description:

The Electrically Insulating Safety Helmet with Integrated Face Shield, BSD ErgoS Intec plus consists of a shell made of ABS, a hoop made of ABS, a chin protector made of polyamide, a headband and nape strap made of polyethylene, a chin strap made of polypropylene, and a face shield (thickness of 1.6 mm) made of polycarbonate. The headband is equipped with an adjustment system (increment every 1 mm) which enables a user to change its length depending on the circumference of the head, at the range between 53 and 63 cm and two levels adjustment system of wearing height. The face shield is covered with coating which protects against the fog. Optionally, it is possible to mount adapters H058S/AD2 designed for attaching additional accessories.

Image:

Basic parameters:

class, personal protective equipment category, performance level(s) or protection class of the product

Helmet:

- *shock absorption (tested after artificial ageing, wet conditioning and thermal conditioning in temperatures of (-40)°C and (+50)°C)*
- *resistance to penetration (tested after artificial ageing, wet conditioning and thermal conditioning in temperatures of (-40)°C and (+50)°C)*
- *resistance to flame*
- *protection against lateral deformations - symbol LD*
- *protection against molten metal splash - symbol MM*
- *protection against electrical shock (class 0)*

Eye protection:

- *optical powers, light transmission factor, luminance factor of dispersed light - optical class 1*
- *resistance to medium energy impact (speed of stroke up to 120 m/s, mass of the ball 0.86 g) - symbol B*
- *protection against droplets and splashes of liquids - symbol 3*
- *resistance to UV radiation - symbol 2*
- *level of protection 2*
- *face shield with enhanced color recognition: red, yellow, green and blue according to p. 5.3 EN 170:2002 - symbol C*
- *protection against short circuit electric arc - symbol 8*
- *protection against thermal hazards of an electric arc - class 2 (box test)*
- *VLT factor: $VLT < 50\%$ for class 2*
- *resistance to fogging - symbol N*
- *protection against thermal hazards of an electric arc - $ATPV = 14 \text{ Cal/cm}^2$*

Identification of the submitted documentation:

- *application for EU type-examination No. 108/2018 dated 14.12.2018*
- *agreement on EU type-examination and review the of EU type-examination certificate No. 42/2018/1437, dated 14.12.2018*
- *technical documentation: Electrically insulating safety helmet with integrated face shield BSD ErgoS Intec plus dated 19.11.2018*
- *statement dated 19.11.2018*
- *user's manual dated November 2018*
- *declaration of harmlessness dated 19.11.2018*

Product/product model supplied with the EU type-examination application is compliant with the technical documentation.

The product meets the requirements of harmonised standard/technical specifications:

- EN 397:2012+A1:2012 "Industrial safety helmets"
- EN 166:2001 "Personal eye protection. Specifications"
- EN 50365:2002 "Electrically insulating helmets for use on low voltage installations"
- EN 170:2002 "Personal eye-protection. Ultraviolet filters. Transmittance requirements and recommended use"

The product has been additionally tested in accordance with the following document:

- GS-ET-29:2011-05 "Supplementary requirements for the testing and certification of face shields for electrical works"
- ASTM F2178-17b "Standard Test Method for Determining the Arc Rating and Standard Specification for Eye or Face Protective Products" (in the field of protection against thermal hazards, ATPV)


confirmed by tests performed by:

1. CIOP-PIB, Department of Personal Protective Equipment, Lodz, Poland
2. CIOP-PIB, Department of Safety Engineering, Warsaw, Poland
3. ECS GmbH – European Certification Service, Aalen, Germany
4. innogy SE-Eurotest, Dortmund, Germany
5. Kinectrics Inc, Toronto, Canada


report No.:

1. 607/PB/2017/NO dated 16.11.2017, 677/PB/2017/NO dated 18.12.2017
2. 615/PB/2017/NB dated 15.11.2017
3. 1134-ECS-18 dated 29.08.2018
4. 18_202 dated 11.07.2018
5. K-352072-01-A-R00 dated 28.11.2018

Marking:

Shell: name, address and logo of the manufacturer BSD, ErgoS Intec plus; ABS; EN 397:2012+A1:2012; -40°C; 440Vac; LD, MM; EN 50365:2002 with graphic sign  - class 0; size 53-63 cm, 20⁷/₈- 24⁵/₈ inch; lot No.: ...; month and year of production; month and year of utilization

Harness: BSD; size 53-63 cm, 20⁷/₈- 24⁵/₈ inch

Eye protection: BSD; level of protection 2C-2; code sign 1B8-2-2; N3-  1000V, ATPV = 14 Cal/cm²

Frame: BSD; EN 166:2001; code sign 38B

The certificate applies in conjunction with one of procedures of conformity assessment according to C2 module or D module pursuant to Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016

NOTE 1:

Every modification to the product and its technical documentation to which this certificate pertains should be notified to the Centre for Certification of Personal Protective and Working Equipment of the Central Institute for Labour Protection – National Research Institute.

This certificate shall be valid as long as the above harmonised standard may be applied as a basis for product examination.

NOTE 2:

Forging the content and the markings of the certificate or modifying them (including a photocopy or scan), or using such document as authentic is a crime under Article 270 § 1 of the Criminal Code.