



CNBOP-PIB

YOUR PARTNER  
IN SAFETY



# GUIDEBOOK





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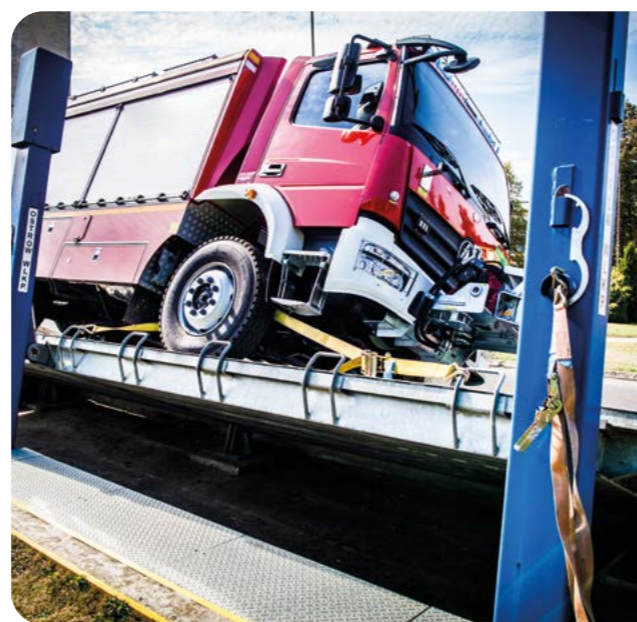
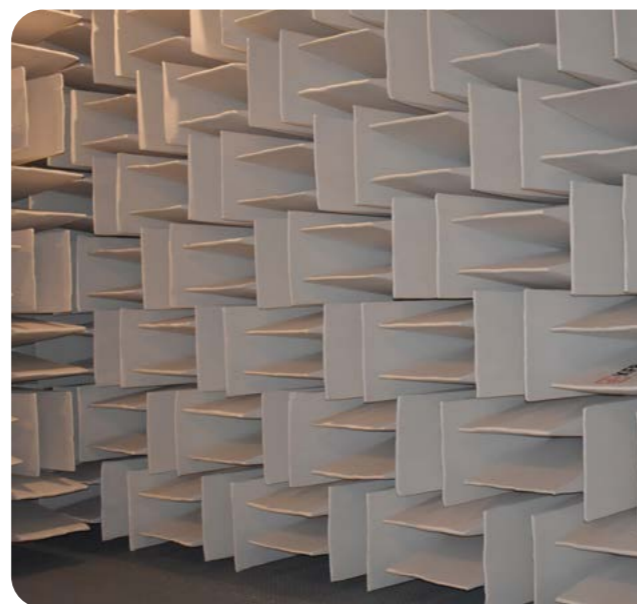
## MISSION AND MAIN AREAS OF ACTIVITY

Scientific and Research Centre for Fire Protection – National Research Institute (CNBOP-PIB) is a research institute of the State Fire Service, whose mission is to act to ensure the general security of the State, especially in the areas of fire protection, environmental engineering, as well as civil protection.

CNBOP-PIB constantly strives to be a modern research institute of recognized standing, constituting a scientific and research and expert base of the Ministry of Internal Affairs and Administration and the State Fire Service, respectively, acting through the implementation of statutory tasks primarily to raise the level of fire safety in Poland.

### The Institute's main tasks include:

- issuing and control of admittance of products used in fire protection and for rescue operations,
- conducting activities in the area of research, certification of products and services and issuing European and national technical assessments,
- developing and providing opinions on requirements, technical criteria as well as participating in standardization projects,
- consulting, performing expert opinions, including judicial, experimental and technical tasks,
- conducting publishing, training, scientific and technical activities in the Institute's area of operation.





# CERTIFICATION AND ADMITTANCE

CENTRUM NAUKOWO-BADAWCZE  
OCHRONY PRZECIWPOŻAROWEJ  
im. Józefa Tuliszowskiego  
PAŃSTWOWY INSTYTUT BADAWCZY  
ul. Nadwiślańska 213, 05-420 Józefów k/Otwocka  
JEDNOSTKA CERTYFIKUJĄCA / CERTIFICATION DEPARTMENT



## Admittance of products for use in fire protection

CNBOP-PIB conducts processes of admittance of products that serve to ensure public safety or protect health and life and property, put into use in fire protection units and used by these units to alert about fire or other danger and to carry out rescue operations, as well as products that are portable firefighting equipment.



## National assessment and verification of constancy of performance of construction products

We offer national assessment and verification of constancy of performance (AVCP) of construction products and factory production control based on the provisions of the Polish Standards and national technical assessments, required for the manufacturer to issue a national declaration of performance and marking the products with the construction mark. This activity is carried out according to systems 1+, 1 and 2+.



## European assessment and verification of constancy of performance of construction products

The assessment and verification of constancy of performance of construction products (system 1) offered by CNBOP-PIB, including power, control and telecommunications cables and wires in terms of reaction to fire (system 1+), is a process necessary for the manufacturer to issue a declaration of performance and marking construction products with the CE marking.



## Conformity certification of products

Conformity certification of products is carried out according to the N1 system, in accordance with the requirements of standards or technical criteria of CNBOP-PIB.

The activity in question is carried out:

- as part of the accreditation of the Polish Centre for Accreditation No. AC 063 held by CNBOP-PIB for groups of products covered by the reference document listed in the current edition of the scope of accreditation;
- outside the scope of the accreditation held by the CNBOP-PIB by the Polish Accreditation Centre No. AC 063, when the reference document applicable to the process is not included in the current edition of the scope of accreditation.



## Certification of software

The certification process includes software testing for:

- fire alarm control panels,
- voice alarm control equipment,
- control panels (used for smoke ventilation, fire extinguishing, control of luminaires),
- systems integrating fire protection devices,
- other fire protection equipment.

Certification of software is carried out outside the scope of the accreditation held by CNBOP-PIB by the Polish Accreditation Centre No. AC 063.



## Voluntary certification of construction products for the United Arab Emirates

Voluntary conformity assessment of products for the United Arab Emirates is carried out by the Institute in accordance with the recognition granted by the Ministry of Interior of the United Arab Emirates. The certification is outside the scope of accreditation.



## Certification of services

### CERTIFICATION OF ENTITIES

Certification of entities is addressed to companies providing services in the fire protection market. Each entity has the opportunity to obtain a certificate confirming the quality of services in the area of:

- designing,
- installation,
- maintenance of technical fire protection systems (for all these services together or selectively).

The CNBOP-PIB certificate allows the entity to increase competitiveness in the market of services, is a confirmation of the quality of services for designing, installation and maintenance of technical fire protection systems.



### CERTIFICATION OF PERSONNEL

Participation in the program of certification of personnel allows to confirm knowledge, skills and social competencies – your own and those of your employees – gained in formal education, non-formal education and through work experience.

CNBOP-PIB is a certifying institution (IC) for 7 qualifications in the area of fire protection in accordance with the decision of the Minister of Internal Affairs and Administration of 9 July 2019. Certificates issued by CNBOP-PIB IC include level identification of the Polish Qualification Framework (PRK), which is consistent with the European Qualification Framework (EQF).





### CERTIFICATION AND AUDITS OF INSTALLATIONS

The offer of certification and audits of fire protection installations (systems) is addressed to owners, managers and other authorized users of buildings or structures. It allows to verify the effectiveness and reliability of the applied fire protection.

### ASSESSMENT OF FIRE SAFETY OF BUILDINGS

The offer of the assessment of fire safety of buildings is addressed to owners, managers and other authorized users of buildings or structures.

The assessment of fire safety of a construction object allows to obtain comprehensive knowledge of the state of fire safety by:

- identification and analysis of existing and potential fire hazards,
- verification and evaluation of technical and construction conditions, applied passive fire protection,
- verification and evaluation of fire protection equipment, applied fire protection active protections, their operation and use,
- verification and evaluation of organizational conditions of fire safety, applied instructions for the operation of fire protection equipment, instructions for dealing with fire alarm situations, business continuity plans,
- preparation of a report on the fire safety assessment.



#### CERTIFICATION DEPARTMENT

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#### CERTIFICATION OF SERVICES DEPARTMENT

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## Laboratory of Fire Alarm Systems and Fire Automation – BA



AB 207

Laboratory of Fire Alarm Systems and Fire Automation – BA performs tests for mechanical, electrical, acoustic, electromagnetic compatibility and physical properties of: elements of fire alarm systems, elements of voice alarm systems, elements of smoke and heat control systems, luminaires for emergency lighting, alarm transmission devices and systems, power systems and fire power switches.

Tests are conducted based on the requirements of standards (EN 54 series, EN 12101, EN 60598-2-22), national technical assessments and the Ministry of Internal Affairs and Administration regulation of 20 June 2007 (Polish Journal of Laws: Dz. U. 2007 Nr 143, poz. 1002; Dz.U. 2010 Nr 85, poz. 553) on the list of products used to ensure public safety or protection of health and life and property, as well as the rules for issuing admittance for use of these products.



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## Laboratory of Fire Protection Units' Technical Equipment – BS



AB 059

Laboratory of Fire Protection Units' Technical Equipment – BS performs qualification testing of products for the purposes of certification and admittance, as well as testing for the purposes of voluntary certification and technical opinions. Qualification tests for the purpose of admittance are carried out mainly for products introduced in fire protection units and for products used by these units to carry out rescue and firefighting operations. The tested products include: fire vehicles, rescue, evacuation and firefighter's personal protection equipment, fire pumps, fire suction and discharge hoses, elements of firefighting fittings.

The Laboratory also issues Technical Opinions on used fire vehicles imported from abroad.



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# LABORATORY TESTING





### Laboratory of Fire Extinguishing Agents and Equipment – BU



AB 060

Laboratory of Fire Extinguishing Agents and Equipment – BU performs tests on portable equipment, which is critical to the effectiveness of its use during firefighting operations. It determines the scope of application and suitability of modern chemical preparations used in rescue and firefighting operations, and also conducts work on the structure and properties of extinguishing agents and sorbents. Also included in the scope of testing are fixed firefighting equipment, hydrants and the effect of the external environment on the materials, products and equipment tested.

The laboratory prepares opinions and expert opinions on the use of firefighting agents, firefighting equipment and components of fixed firefighting equipment. In addition, the BU Team conducts testing of the quality of batches of extinguishing agents delivered to users and evaluates the quality and possibility of further use of expired extinguishing agents. The Laboratory's also prepares opinions on sprinklers after 10- or 25-year operation in fixed firefighting equipment installations.



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### Laboratory of Combustion Processes and Explosions – BW



AB 1280

Laboratory of Combustion Processes and Explosions – BW performs tests of fire properties of building materials and interior decoration, as well as explosivity parameters of dusts, liquid vapours and gases, and numerical evaluations of the phenomenon of fire spread in rooms and objects.

The Laboratory conducts individual experimental work (including research and development and targeted projects) on combustion and explosiveness processes, and prepares documentation relating to the prevention of major industrial accidents (SEVESO). An important aspect of the Laboratory's work is expert opinions and assessments in the area of explosion hazards (e.g. ATEX) and fire hazards in buildings and structures, together with the determination of recommendations to improve the level of fire safety.

The Laboratory also offers tests to assess the degree of protection of a lithium-ion battery subjected to prolonged exposure to elevated temperatures, external flame heating and mechanical damage.



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# ASSESSMENTS AND TECHNICAL OPINIONS

## CNBOP-PIB National Technical Assessment

CNBOP-PIB, acting as the National Technical Assessment Body, is authorized to issue national technical assessments for the following groups of construction products:

- fixed fire protection systems, sets and components (subassemblies) of fire protection power switches,
- power, control and communication cables (including fibre optic cables),
- fire stopping, sealing and fire protection products, flame retardant products.

A national technical assessment is issued for a construction product:

- not covered by the substantive scope of the Polish Product Standard, or
- if, for at least one essential characteristic of the construction product, the assessment method provided for in the Polish Product Standard is not appropriate, or
- if the Polish Product Standard does not provide for an evaluation method for at least one essential characteristic of the construction product.



## CNBOP-PIB European Technical Assessment

CNBOP-PIB, acting as a Technical Assessment Body, is authorized to issue European technical assessments for the following groups of construction products:

- power, control and communication cables,
- fixed firefighting equipment (products for fire detection and alarm, fixed firefighting equipment, products for fire and smoke control and explosion suppression),
- fire stopping, sealing and fire protection products, flame retardant products.

The Technical Assessment Body (TAB) issues a European Technical Assessment at the request of the manufacturer, on the basis of a European Assessment Document established in accordance with the procedure described in Article 21 and Annex II of Regulation (EU) No. 305/2011 of the European Parliament and of the Council.



## CNBOP-PIB Technical Opinions

CNBOP-PIB Technical Opinion is a voluntary document, confirming the suitability of the product for use in fire protection.

CNBOP-PIB Technical Opinion document can be issued for components of: fire alarm systems, voice alarm systems, fixed firefighting equipment, smoke and heat control systems, emergency evacuation lighting systems, dynamic emergency evacuation lighting systems, access control systems cooperating with fire protection equipment, systems for management of opening of exits on escape routes, conductors and cables for fire protection systems and cable assemblies, in terms of declared additional properties and functionality (not being within the scope of standards, technical evaluations or exceeding the level of requirements specified in the corresponding technical specifications), firefighting and rescue equipment – for products not subject to mandatory assessment according to national and European regulations (certification, admittance).

It contains information about the technical properties and performance of the product not subject to mandatory assessment or with properties exceeding the level of essential requirements.

This document can complement the national technical assessments, certificates of conformity and certificates of admittance issued by CNBOP-PIB for construction products used for fire protection and other products used in fire protection.



### TECHNICAL ASSESSMENT DEPARTMENT

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# TESTING INNOVATIVE PRODUCTS

## Testing innovative products

The procedure is aimed at assessing the suitability for use in rescue and firefighting operations of products not covered by the obligation for obtaining admittance for use in accordance with Article 7 of the Act of 24 August 1991 on fire protection (Polish Journal of Laws: Dz. U. 2025 poz. 188).

After testing the product with a positive result, the manufacturer receives:

- **Recommendation for use in fire protection** – applies to products not subject to mandatory admittance.
- or
- **Opinion on suitability for use in fire protection** – applies to products subject to mandatory admittance.



### TECHNICAL ASSESSMENT DEPARTMENT

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## Drone Centre

The Drone Centre's mission is to support the development of modern drone and firefighting technologies.

Its activities primarily include training in piloting UAVs and refresher courses for emergency services. The Drone Centre's offerings include: taking orthophotos and 3D models, thermal imaging, fire inspections, expertise, drone testing, and consulting and training services.

The unit provides reliable solutions to increase the efficiency of operations and the safety of rescuers.



### DRONE CENTRE

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## Conferences of the Safety of New Technologies series

In connection with the intensive development of new technologies, the question of their safety arises more and more often. CNBOP-PIB, together with its partners, has undertaken the organization of a series of conferences, which are intended to be a place for the presentation and dissemination of research results, review of current knowledge in the field of intensively developing technologies, such as photovoltaic installations, energy storage, electric vehicles together with points and stations for their charging, and many others, referred to as smart home solutions. The conferences are intended to exchange views and experiences of various communities interested in fire safety offered new technical solutions and technologies, also in connection with the growing number of facilities equipped with them.





# RESEARCH



Since 2010, the Institute has been among the prestigious group of national research institutes. It has a scientific category B+ in the discipline of environmental engineering, mining and energy. The constantly modernized research potential of the Institute is provided by highly qualified staff, four teams of laboratories equipped with more than 330 specialized research stands and a team of experts from other substantive and supporting units.

CNBOP-PIB conducts research work (statutory and within the framework of national and international projects), organizes scientific conferences, issues specialized publications, and supports the development of new technologies in proprietary certification and research programs.

## CNBOP-PIB Publishing House

CNBOP-PIB Publishing House specializes in publishing scientific monographs and guides in the area of fire protection and civil protection, as well as standards and guidelines. Publications issued by the Institute undergo an objective review process. Each party to the publishing process (editors, authors, reviewers) is required to adhere to the principles of publication ethics based on COPE (Committee on Publication Ethics) guidelines.

On the list of publications of the Ministry of Science and Higher Education, the publishing house received 80 points. Most of the publications are disseminated in open access, other items can be purchased from the Institute's online store.

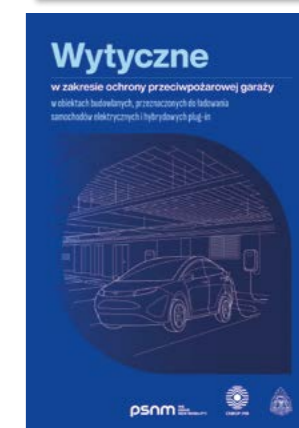
<https://online.cnbop.pl>

## Safety & Fire Technology

The Institute is the publisher of the scientific journal Safety & Fire Technology (formerly BiTP. Fire Safety and Technology), a peer-reviewed semi-annual journal that publishes original scientific articles, preliminary reports, review articles and case studies.

In the ministerial list of scientific journals and peer-reviewed materials of international conferences, 40 points are awarded to the author's scientific achievements for the publication of a scientific article in the SFT journal. Disciplines of the journal: chemical engineering; materials engineering; environmental engineering, mining and power engineering; safety sciences.

<https://sft.cnbop.pl>





# TRAINING

CNBOP-PIB conducts training courses, conferences, seminars and workshops. The high substantive level and professionalism of these events are guaranteed by:

- more than 30 years of experience in the field of training services in fire protection, crisis management and civil protection;
- highly qualified lecturers – scientists, daily engaged in the study of equipment used in fire protection, and practitioners, fire protection experts.

The institute also organizes closed-door training courses at the request of clients, tailored to the needs and specifics of the company and taking into account the potential of individual employee groups.

The offer also includes training courses for personnel carrying out public tasks in cooperation with state organizations and universities, as well as drone training for uniformed services, fire inspectors, chimney sweeps and PV installers. All training courses are conducted on the basis of current legislation and European standards.

The participants of the trainings can use the accommodation base at CNBOP-PIB headquarters.

## TRAINING DEPARTMENT

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## ACCOMMODATION

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## CALENDAR AND REGISTRATION



**CNBOP-PIB**

TWÓJ PARTNER W  
**BEZPIECZENSTWIE**

**SZKOLENIA  
SPECJALISTYCZNE CNBOP-PIB**  
stacjonarne / hybrydowe / on-line

szkolenia dla rzeczoznawców ds. zabezpieczeń ppoż.

szkolenia dla projektantów, instalatorów, konserwatorów i specjalistów

szkolenia dotyczące wyrobów stosowanych w ochronie ppoż.

**GWARANTUJEMY**

- poziom merytoryczny
- wysoki stopień zaawansowania
- dostosowanie do wiedzy i umiejętności uczestników
- optymalny dobór zagadnień
- wykwalifikowaną kadrę wykładowców

**OFERUJEMY**

- ✓ aktualną wiedzę i praktyczne umiejętności w wybranym obszarze
- ✓ uznawany na rynku certyfikat lub zaświadczenie
- ✓ ćwiczenia projektowe

**WYKAZ SZKOLEŃ**

10	Szkolenie: Stałe urządzenia gaśnicze tryskaczowe w ochronie przeciwpożarowej
11	Szkolenie: Przeciwpożarowy wyłącznik prądu „PWP”
12	Szkolenie: Planowanie i organizacja ewakuacji ludzi z budynków
13	Szkolenie dla konserwatorów hydrantów zewnętrznych i wewnętrznych
14	Szkolenie Inspektorów Ochrony Przeciwpożarowej
15	Szkolenie: Stałe urządzenia gaśnicze gazowe w ochronie przeciwpożarowej
16	Szkolenie: Oświetlenie awaryjne – projektowanie, instalacja i konserwacja
17	Szkolenie z zakresu ochrony ppoż. dotyczące drzwi i innych zamknięć przeciwpożarowych. Dobór, montaż, konserwacja i demontaż



## YOUR PARTNER IN SAFETY

### CNBOP-PIB to guard the safety of rescuers

One of the main areas of the Institute's activity is the assessment of products used in fire protection in terms of compliance with technical-operational requirements.

Every day, four teams of CNBOP-PIB laboratories perform tests on samples of products submitted to the admittance process, in which the following are verified:

- **the safety of using** a given product in a variety of environmental and atmospheric conditions, under a variety of hazards;
- **reliability**, i.e. the ability to perform a specific function of the equipment at the time the user needs it;
- **durability**, i.e. resistance to the effects of external factors, operating time, in harsh working conditions and the human factor.

Tests and controls carried out as part of the admittance process make it possible to eliminate from the market defective products that do not comply with the requirements of the regulation, and that pose a threat to the health and life of their users. Only products that meet the requirements, meet the needs of Polish rescuers and, above all, are safe are admitted for use.

**The system of admittance is of strategic importance for the safety of rescuers, rescued persons and users of construction facilities.**





## Promotion of safe implementations

CNBOP-PIB follows the changing market and the development of new technologies. An example of this is our test stands for PV installations, batteries and accumulators. The test results allow the manufacturers of new products to improve fire protection. We perform full-scale tests in cooperation with the State Fire Service (e.g. firefighting sheets, electric vehicle extinguishing stations). We share the results and conclusions of the tests in monographs and guidelines. The knowledge we impart becomes truly useful.



## Social prevention and education

Belonging to the National Fire Service obliges us to promote the right attitudes in society. We participate in social campaigns, support the education of firefighting adepts – we organize festival lessons and demonstrations for cadets.

We also undertake local initiatives through drone training for services and administration, and certification of young people in firefighting classes. We are also involved in larger-scale projects, such as Polish Aid – by organizing educational classrooms in Moldova. We share our best knowledge in professional literature.



**Working together has an impact on the safety of all of us.**

## Certification for the benefit of the market and manufacturers

The certification carried out by CNBOP-PIB allows to demonstrate compliance of the product with legal requirements for fire protection. It ensures the compliance of products with EU standards, allowing them to enter the international market. The certification confirms the intended use of the products. Undergoing this process demonstrates professionalism and increases the competitiveness of manufacturers. Not only do we create new opportunities for manufacturers, but above all we protect the public from the dangers of using products that do not comply with current regulations.

**Fire safety starts with certified products. This is an investment in safety.**

## Improving fire safety through service certification

An equally important area is the certification of services in fire protection. Their proper level determines fire safety in buildings. CNBOP-PIB, by issuing certificates to entities, confirms that their services meet the standards set by the Institute for the design, installation and maintenance of fire protection systems.

**An efficient product will not pass the exam if it is not properly selected, installed and if it is not properly maintained. Certification of entities conducted by CNBOP-PIB allows to increase the quality and competitiveness of services in fire protection.**







SCIENTIFIC AND RESEARCH CENTRE  
FOR FIRE PROTECTION  
NATIONAL RESEARCH INSTITUTE

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