

DEVELOPMENT OF LIGHT-WEIGHT FAST INSTALLATION PROTECTIVE BLASTSCREENS

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Abstract: The presentation discusses the development of the system of light-weight, fast installation blast screens for personnel and industrial protection against intentional and accidental threats. The proposed solution allows fast employment for both temporary and/or permanent protection of vulnerable areas and critical components of industrial infrastructure. The system consists of protective sandwich panels and structural framing system designed in collaboration with the industrial partner. All key phases of the development process are discussed, including selection and characterization of structural materials, structural optimization through finite element modeling, manufacturing process and field testing of the prototype structures.

The project is supported by Polish National Research and Development Centre.

Keywords: blast resistant; experiment, numerical design.