

# **P70 Practical Experience in the Development and Construction of Lightweight Blast Resistant Retrofit Measures for Elevation Masonry Walls and Windows**

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## **Abstract:**

The paper includes the description of the authors' practical experience in the development, design and supervision of the construction of lightweight blast resistant retrofit measures for elevation masonry walls and windows.

The retrofit measures referred to have been developed using protective requirements for various threats, including various types of explosive devices from small improvised explosive devices to large vehicle borne charges, and have been designed to optimally mitigate the blast effects.

The retrofit measures referred to are rapid erectable and consist of lightweight materials such as ballistic fabrics, fiber reinforced plastic, hardened films and cable catcher systems.

All the retrofit measures presented here have been tested in full scale explosive tests, withstood successfully the blast effects and were actually constructed in numerous projects.

Some of the described retrofit measures have been subjected to real war and terrorist attacks and proved their efficiency, increasing substantially the people's survivability.

## **Notes:**