



US Army Corps
of Engineers®

Modular Protective System EREB

Expedient Retrofit for Existing Buildings



ERDC
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Building Strong®

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Features

- **Modular for any room width and a range of room heights**
- **Each component is less than 60 pounds and can be installed quickly**
- **No specific MOS required**
- **No equipment or special tools needed**
- **Easily disassembled and reused**
- **Protection provided from small arms, indirect fire, and blast threats**
- **Protection level tailorable using layered armor panels and existing building properties**



Product Description

The Modular Protective System (MPS) Expedient Retrofit for Existing Buildings (EREB) is a modular, lightweight retrofit to increase the level of protection provided by existing concrete and masonry buildings from small arms, indirect fire, and blast threats. All components are less than 60 pounds and no anchoring, special tools, or equipment are required for installation. Protection is provided by a multi-layered armor panel system combined with the existing building.



The U.S. Army Engineer Research and Development Center (ERDC) solves the nation's toughest engineering and environmental challenges. ERDC develops innovative solutions in civil and military engineering, geospatial sciences, water resources, and environmental sciences for the Army, DOD, civilian agencies, and our Nation's public good. Find out more on our website: www.erdcd.usace.army.mil. Approved for public release; distribution is unlimited. June 2019.



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Performance

Protects against small arms, indirect fire, and blast threats
Adaptable to a range of heights to fit in most existing buildings

Kit Information

NSN	Visualization	Description	Weight
Not assigned		Kit: 10' x 12' x 3.5' retrofit in one 4.5' x 6' x 3' wood crate	1,800 lb
Kit			Cost
Not assigned			TBD

Component	NSN	Quantity
Footing column	Not assigned	10
Bottom X-brace	Not assigned	5
Outer legs	Not assigned	20
Modular Z-bar bracket	Not assigned	20
X-brace	Not assigned	26
Z-bar	Not assigned	12
Nut	Not assigned	20
Header column	Not assigned	10
E-glass panel	Not assigned	16

Technical POCs

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