

Our services

Take advantage of some of the services the PDC offers:

Planning

Project scoping and criteria development using risk and threat analysis.

Engineering Surveys

Protective system recommendations, structural damage surveys and force protection assessments at fixed facilities and forward deployed sites.

Design Services

Review, consultation or preparation of facility drawings and specifications.

Construction Support

On-site inspections and review of contract specifications and contractor submittals.

Publications

Writing, editing, updating and revising protective design manuals and other publications, reports and regulations.

Training

Short courses that provide the tools to protect people and other critical assets against a wide range of threats - for design professionals, master planners, force protection officers and security professionals.



Points of Contact

For more information, contact the Protective Design Center or visit <https://pdc.usace.army.mil>

U.S. Army Corps of Engineers
Protective Design Center
12565 West Center Road
Omaha, Nebraska 68144-3869
402-221-3151

Hardened Structures Design

402-221-3177
402-221-4923

Weapons Effects and Explosives Safety

402-221-3176

Chemical, Biological, and Radiological Protection

402-221-4925

Security Engineering and Other Training

402-221-3073
402-221-4919

Security Fencing and Vehicle Barriers

402-221-7585

Threat and Vulnerability Assessments/ Site Surveys

402-221-3073
402-221-3062

AT Standards and Coordination with Others

402-221-3817

Analysis/Design of Structures

402-221-3152
402-221-4914

Civil Infrastructure Protection

402-221-4482

Protective Design



Overhead Cover - The PDC worked with ERDC to develop this system of overhead cover protection to protect soldiers against mortar attacks while they eat and sleep. Pictured here is indirect fire weapons protection being installed over offices.

Center of Expertise

Force protection, hardened structures, weapons protection and more.



**US Army Corps
of Engineers®
Protective Design Center
of Expertise**

Protective Design Center of Expertise

Mission

The mission of the Protective Design Center (PDC) is to provide security engineering services to protect designated assets against criminal, terrorist and military weapons effects.

Mission Areas

The PDC provides security engineering services in support of the military around the world, for the civil infrastructure and for other federal agencies. This work includes:

- Physical Security and Antiterrorism
- Conventional Weapons Resistant Design
- Nuclear Weapons Resistant Design
- Chemical and Biological Protection
- Explosives Safety
- Support to the Troops



Blower Door Test - Leakage rate testing for facility collective protection against chemical/biological threats.

What we do

The PDC uses a proven security engineering approach to develop protective design criteria as well as to devise and implement protective design strategies such as:

- Evaluating research, testing and product development related to protective design.
- Maintaining Corps criteria documents and computer programs related to protective design.
- Coordinating with the private sector in areas of protective design.
- Reviewing programming documents for protective design applications.
- Providing protective design technical support to the Corps.
- Providing security engineering/force protection technical support.
- Providing security engineering/force protection policy support.

For hardened structures, the PDC formulates analytical design methods, develops related computer programs, conducts studies and monitors laboratory research related to weapons effects and facility response.

The center also provides technical support to non-Department of Defense (DoD) agencies and foreign governments when coordinated with, and authorized by, the U.S. Army Corps of Engineers.



Force Protection - Above, a large threat vehicle impacts a double-wall vehicle barrier system.

Improving capabilities

The knowledgeable and dedicated professional PDC staff is continually developing better security engineering standards. The staff is sensitive to project cost issues and works with research agencies to improve the hardness capabilities of standard construction systems through low-cost hardening solutions.

The Corps works within the DoD community to establish research needs, product testing, event analysis and technology transfer. Testing includes small-scale and full-scale testing of structural systems, which is transferred into meaningful design criteria and computer simulation software.

Training others

The PDC offers training at various locations around the world covering:

- Security Engineering
- Minimum Antiterrorism (AT) Construction Standards
- Blast Analysis/Design
- Windows and Doors in Blast Environment

Mobile training teams are available upon request.