



Brigade and Battalion Headquarters, Fort Carson, Colorado

The Fort Carson Brigade and Battalion Headquarters was built as a collaborative approach to quality control and quality assurance to meet special blast load criteria. It now serves as the national prototype for future Brigade and Battalion headquarter projects, and is the first Fort Carson project to employ a design-build process. The project includes integral think brick and a three-color blend, helping incorporate the structure into the Fort Carson architectural landscape.

This project consists of 8 inch thick insulated precast/prestressed concrete spandrel panels supported by a steel structure system. These panels are designed to meet blast loading and anti-terrorist-force protection criteria. A quantity of 133 panels (30,620 sf) and 105 infill pieces (1620 sf) were erected in approximately three weeks, resulting in timely completion and turnover to the U.S. Army.

The high-performance Fort Carson Brigade and Battalion Headquarters structure exceeded specialized design requirements, earning LEED® Gold certification. This is the first U.S. Army building to receive LEED® Gold certification from the U.S. Green Building Council.

Project Facts:

Market Segment:	Military
Products Used:	Precast blast resistant and insulated spandrel panels
Finishes Used:	Thin brick and three-color blend



Project Design Team:

Owner:	United States Army Corps of Engineers, Ft. Worth, TX
General Contractor:	Hensel Phelps Construction Company, Denver, CO
Architect of Record:	RNL Design, Denver, CP
Engineer of Record:	Martin/Martin Inc., Lakewood, CO



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The exteriors are clad with integral thin brick in a three color blend. The aesthetic thin brick is designed to incorporate the structure into the existing Fort Carson architectural landscape.



Fort Carson's project features special blast resistance and load design and serves as the national prototype for future brigade and battalion headquarters buildings.



Precast panels are designed to provide thermal efficiency requirements. The insulation provides a complete thermal building wrap, and contributes to high energy performance in the building.



The headquarters building features a significant number of windows that are also blast resistant, with the anchoring to the precast spandrels designed to take significant blast loads.

