



QUAKER
COMMERCIAL WINDOWS AND DOORS

**BLAST-TESTED WINDOWS
&
PROJECT REFERENCES**

BLAST TESTING IS AN INCREASINGLY IMPORTANT SEGMENT OF THE COMMERCIAL BUILDING SECTOR.

Yet, not many windows even come close to achieving Blast Testing requirements.

At Quaker, we recognize the prominence of projects requiring blast tested products and we've found that our windows are continuously up to this challenge.

Quaker's blast tested products have been tediously tested to meet the strict criteria outlined in the Department of Defense's Minimum Anti-Terrorism Building Standards. Combine those blast capabilities with our windows' overall operation and structural integrity, and it's no wonder Quaker's Blast-Tested products have become the most sought-after in the industry.



www.QuakerCommercialWindows.com

ACROSS THE COUNTRY, MILITARY INSTALLATIONS & BASES

FORT KNOX, KY

19TH ENGINEERING BATTALION COMPLEX BARRACKS



The 19th Engineering Battalion's mission is to provide engineering support around the world to all branches of service. In 2014, construction was finished on a new, 197,000 sq. ft., \$40 million facility that better suited the day-to-day operations of The 19th. The project included 5 buildings serving up to

800 personnel daily. Quaker provided our B500 Aluminum Single Hung windows, essentially knocking out the two major directives posed by the project specs: meeting the Department of Defense's Anti-Terrorism standards and also securing LEED points so the project could achieve LEED Silver Certification.

FORT CAMPBELL, KY

LIVE FIRE SHOOT HOUSE

The Corps of Engineers completed this \$3.8 million shoot house facility for live fire training exercises in 2014. The purpose of the shoot house is to train and evaluate soldiers' abilities to move tactically, enter and clear a room or building, engage targets and practice target discrimination. Operable venting windows that were also blast-tested and certified were spec'ed and Quaker's B400 Aluminum Awning window was quickly selected for the project.

FORT LEONARD WOOD, MO

MINE DETECTION TRAINING FACILITY & K-9 KENNEL

Part of Ft. Wood's Counter-Explosive Hazards Training is done in their Mine Detection Training Facility and K-9 Kennel, which was completed in 2011. While



not a large project, the center is considered highly-important to the Army's cause as it supports their ability to prepare for and conduct missions in areas where IEDs (Improved Explosive Devices) are expected. Since this facility plays such a significant role, and because of the very nature of the training given there, engineers went with Quaker's blast-tested B500 Aluminum Single Hung windows.

FORT POLK, LA

JOINT READINESS TRAINING CENTER



Quaker's B500 Aluminum Picture Window was smartly chosen for the recently-constructed Joint Readiness Training Center (JRTC) at Fort Polk. The JRTC is a valuable resource for infantry task forces, as it focuses on improving unit readiness by providing highly-realistic, joint and combined arms training. Specs required

blast-tested fixed windows and Quaker's B500 fit the bill.

Other Recent U.S. Army projects:

Ft. Pickett - Blackstone, VA - Administration Bldg. 1600 | Ft. Campbell, KY - Bldg. 6254 | Ft. Benning, GA | Dugway Proving Grounds - Dugway, UT | Camp Dodge - Urbandale, IA | Ft. Sill - Lawton, OK | Ft. Bragg, NC |

HAVE FOUND QUAKER'S PRODUCTS TO BE ON TARGET.

FORT HOOD - KILLEEN, TX

U.S. ARMY OPERATIONAL TEST COMMAND

Ft. Hood is where you'll find the Army's 1st Cavalry Division. With more than 20,000 troops, the 1st CD is known as the military's premier, heavy-armored sector. Ft. Hood is also home to U.S. Army Operational Test Command, which spearheads the testing of future army equipment. Recent renovations to the first floor of this integral building took place in 2011 with Quaker's Heavy-Commercial-rated Aluminum Picture Window and Awning windows stepping up to do the job.

FORT BLISS - EL PASO, TX

HEAVY SNIPER RANGE

2014 saw the establishment of this special training range, designed to teach sniper teams the skills used to identify, engage and defeat both stationary and moving targets during combat. Part of the blueprint included a building to be used for both preparatory instructions and post-exercise reviews to give soldiers immediate performance feedback. Prospective window manufacturers were challenged to provide products which would help with LEED achievement as well as special glazing made up of wire glass teamed with laminated glass to comply with Dept. of Defense requirements. Quaker had all the right goods, eventually supplying AW-rated aluminum Awning and Fixed windows for the project.

FORT PICKETT, VA

ADMINISTRATION BUILDINGS

Renovated in 2014, this project was completed in two phases. Quaker delivered E300 Horizontal Sliding aluminum windows to the base, which is occupied by the Virginia National Guard and Air Guard and is also home to the Army National Guard Maneuver Training Center.

YUMA PROVING GROUNDS - YUMA, AZ

BUILDINGS 306, 308 AND BASE ANNEX

Yuma Proving Grounds is part of the U.S. Army Test & Evaluation Command. Testing military equipment is performed across its entire 1,300 square mile footprint. Renovations to 3 structures at YPG took place simultaneously in 2011. Each structure required blast-mitigated windows. Quaker's T500 Aluminum Single Hung and K300 Aluminum Fixed windows proved to be worthwhile choices, easily exceeding specifications.

JOINT BASE LEWIS-McCHORD - TACOMA, WA

BARRACKS BUILDINGS 3653 AND 3654

Before becoming Joint Base Lewis-McChord in 2010, this Army Base was known simply as Ft. Lewis, named after Meriwether Lewis of the famed Lewis & Clark Expedition. Just before the merger, an order to repair two of the main barracks on base was put into action. Upon reviewing specifications, engineers decided upon Quaker's T500 Aluminum Single Hung and Picture Window, both of which were blast-tested.

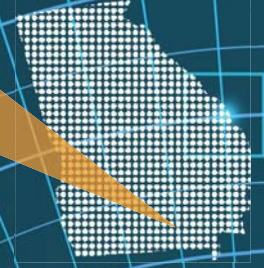
Ft. Knox, KY - Administration Bldg. 204 | Ft. Belvoir, Alexandria, VA | Ft. Sam Houston - San Antonio, TX |
Ft. Carson, CO | Ft. Drum, NY | Ft. Lee, VA | Ft. Riley, KS | Schofield/Shafter Army Installation - Honolulu, HI



QUAKER FLIES HIGH WITH WINDOWS & DOORS

MOODY AIR FORCE BASE - VALDOSTA, GA UNACCOMPANIED AIRMEN DORMITORY

Originally known as Valdosta Air Field when it opened in 1941, Moody AFB received permanent status in 1954. The base supports the training and deployment of combat-ready and rescue aircraft. Roughly 4,500 airmen are stationed at Moody, all in need of housing. For incoming airmen who are unaccompanied by family, dormitories are available. Dorms containing individual HVAC units contain Quaker windows because of our ability to supply built-in louver systems for quicker, easier installation.



MAXWELL-GUNTER AIR FORCE BASE - MONTGOMERY, AL SQUADRON OFFICER COMMAND LODGING FACILITY

In 1910, the Wright Brothers opened one of the world's first flying schools in Montgomery, Alabama. The school's location would eventually become Maxwell Air Base. Thus it is rather appropriate that a component of the Air Force's Air Education & Training Command known as Air University is located at Maxwell. Squadron Officer Command (SOC) makes up a portion of Air University. Quaker furnished more than 375 heavy-commercial-rated aluminum sliders and casements for the SOC lodging facility.



HICKAM AIR FORCE BASE - HONOLULU, HI ENLISTED PERSONNEL FAMILY HOUSING

The Pacific Command of the USAF is located at Hickam Air Force Base. Found on the island of Oahu, Hawaii, the base shares its runways with adjacent Honolulu International Airport. Base housing for enlisted men with families was completely renovated in 2006. Quaker supplied nearly 4,000 aluminum single hung, sliders and picture windows to the project, which also required a special color to conform with specs.



TINKER AIR FORCE BASE - OKLAHOMA CITY, OK HOLLISTER HALL - BUILDING 5942

The location of Tinker AFB is logistically friendly as the base provides data support, depot maintenance and supply chain management to 93 other Air Force bases from its midwestern locale. A new dormitory was added for airmen of the 552nd Air Control Group in 2003. By 2010, new windows were necessary to comply with upgraded Department of Defense criteria. Quaker's heavy-commercial-rated Aluminum Sliders, which had easily passed all blast-testing, were confidently called into action as part of the makeover.



Other Recent U.S. Air Force Projects:

Wendover (UT) Airport, formerly Wendover Air Force Base - TUAV Enola Gay Hangar Refurbishment
Whiteman Air Force Base - Knob Noster, MO | Lackland Air Force Base - San Antonio, TX
Kirtland Air Force Base - Albuquerque, NM | Petersen Air Force Base - Colorado Springs, CO
McConnell Air Force Base - Wichita, KS | Eglin Air Force Base - Valparaiso, FL
Andrews Air Force Base - Washington, DC | Scott Air Force Base - Belleville, IL
Dyess Air Force Base - Abilene, TX | Laughlin Air Force Base - Del Rio, TX
Little Rock (AR) Air Force Base | Cannon Air Force Base - Clovis, NM | Dover (DE) Air Force Base

PERFECTLY SUITED FOR 21ST CENTURY DUTY



NORFOLK NAVAL STATION - NORFOLK, VA

BARRACKS IF (BULLARD HALL)

BARRACKS KJ (INTREPID HALL)

BARRACKS KK (CONSTELLATION HALL)

In 2013, the renovation of 3 barracks located at Norfolk Naval Base in Virginia began. Full renovations were necessary so that the structures, all built before WWII, would meet the Navy's new, self-imposed regulations for living quarters. By 2013, refurbishments were complete on all three barracks: Constellation Hall, Intrepid Hall and Bullard Hall. During the planning stage, Quaker's B500 Aluminum Single Hung was the preferred window and eventually was used for the entire project.

Other Recent U.S. Naval Base Projects:
Fallon Naval Air Station - Fallon, NV

Armed Forces Reserve Center - Mustang, OK

Construction of this new, 164,000 sq. ft. facility was completed in 2010. It serves more than 1,100 members of the U.S. Army Reserve and Oklahoma National Guard. Engineers called upon Quaker's B500 Aluminum Picture Windows to meet all window design specifications, which included the pursuit of LEED Gold certification as well as adherence to all Anti-Terrorism standards.

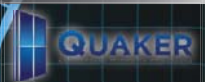


Armed Forces Reserve Center - Norman, OK

To consolidate Reserve Posts spread out over a large portion of Oklahoma, this \$43 million structure was built in 2010. In essence, it was developed in response to 70 years of demographic changes in the Sooner state. It was determined that troops were travelling too far for duty and this centralized location would alleviate much of that. This ARFC covers 240,000 sq. ft. and serves up to 1,200 National Guardsmen and Army Reservists. Quaker's B500 Aluminum Picture Window was the project's chosen product because it could assist in meeting LEED certification status and it met GSA Blast-Test requirements.



Other recent Army and Air Reserve Center Projects:
Armed Forces Reserve Center - McAlester, OK
Youngstown-Warren Air Reserve Station - Vienna, OH



THE QUAKER DIFFERENCE:

PRODUCTS & PEOPLE

Our Blast-Tested windows, designed specifically for use in military and governmental buildings offer the solutions to make your job easier:



- Performance Condition 2 protection (see page 3 for more details)
- Special glazing specifically designed to meet ASTM F1642-04 (Standard Test Method for Glazing and Glazing Systems Subject to Airblast Loadings)
- Product strength and durability with AAMA test ratings up to AW-70
- Multiple anchoring systems for added installation muscle
- No field assembly required. Fully factory assembled.
- Never is a job too custom for Quaker. Our option and accessory choices allow us to do what others can't. From custom colors to special locking systems.



Quaker has Blast-Tested windows and doors in almost any type of operating or fixed model:

Single Hung | Double Hung | Casement | Awning | Horizontal Sliders | Picture Window | Geometric Shapes



We have an experienced staff entirely dedicated to the commercial building industry, including the sector encompassing military, government and blast projects. They will work hard to ensure that every specified detail is met with the Quaker products you choose.



QUAKER
COMMERCIAL WINDOWS AND DOORS

For more information on how Quaker windows & doors can work for your military project, visit:

QuakerCommercialWindows.com

Or contact Quaker Window Products today:
Phone: 1-800-347-0438
Email: sales@quakerwindows.com



BLAST
SERIES



August 2016