



Door & Window Ideas



KriegerSonic

Acoustical and SCIF



For over 85 years, Krieger Specialty Products has been producing exceptional acoustical doors and windows that beautifully accentuate a building's design while quietly operating as high-performance sound barriers.

Every Krieger acoustical door and window is manufactured to the size, shape, configuration, and finish option your client needs. Plus, they are delivered as complete acoustical assemblies with seals, hinges, and threshold included.

Our SCIF compliant acoustical door assemblies are designed and manufactured for your defense related needs.



STC Ratings

Door Assemblies: Up to STC 55

Windows: Up to STC 56

Metal and wood veneer



Tests and Certifications

ASTM E90

JUIAF

ASTM E336

JAFAN

ASTM E1408

DCID 6/9

ASTM E413

ICPM 2006-700-7

ASTM A 1008

Cold-rolled steel sheet, commercial quality

705 SCIF Door and Lock Package

Door and Lock in One Box

Krieger's 705 SCIF Door and Lock Package meets SCIF Sound Groups 3 and 4 standards, and comes with an installed Kaba Mas, Sargent and Greenleaf, or Lockmasters locking device.

Save Time and Money

Your 705 SCIF Door and Lock Package will arrive at the job site with the majority of the hardware installed, along with detailed instructions and drawings. This can reduce wait time of a typical installation and the need for multiple installers.

One-Stop Customer Service

If you have a question or issue with your 705 SCIF Door and Lock Package, Krieger will handle all of the customer service support—everything from the door down to the locking device. You do not have to deal with separate warranties or multiple companies.

One Complete Solution and 100% ICD 705 Certified

Krieger Door and Frame

SCIF Door

Designed for SCIF
Sounds Group 3 and 4

Slip-In Frame

Cam Lift Hinges, Closer,
Threshold, and Door Bottom

Locking Device

Choose the Brand that Fits Your Needs

Kaba Mas **Sargent & Greenleaf** **Lockmasters**

Life Safety Exit Options

Lever

A sturdy ADA compliant
release handle on interior

Panic Bar

Single-push panic bar
combined with dial lock

Delivery Times

3'0" Wide x 7'0" Height Size

15-20 Working Days

All Other Door Sizes

Call for a Quote

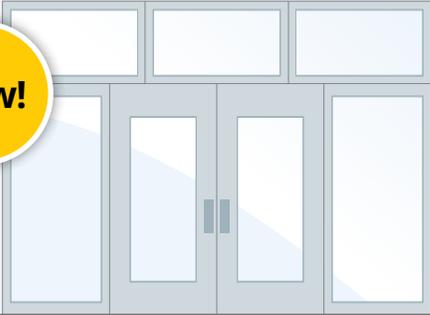
Ordering More than 5 Doors? Call for a Quote.

**Order
Online**



Highest Tested Acoustical Door and Window Wall Assembly—Up to STC 52

New!



Lab Tested as a Unit

The assembly underwent rigorous lab testing—in multiple configurations as one unit with door, panels and/or window sections, testing higher than any other wall assembly on the market.

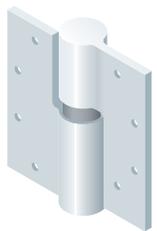
- Testing for sound loss due to splices in large areas
- Guaranteed to achieve the desired STC rating
- Strengthened reproducibility in the field

Lowest Frequency Loss

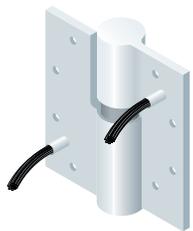
NVLAP accredited laboratory acoustical test reports demonstrate that our designs have industry-leading transmission loss.

Cam Lift Hinge

Krieger's Cam Lift Hinges are manufactured out of stainless steel, thus allowing for many years of trouble-free operation. They come in US32D, plus the new powder coat finishes alike BHMA finishes.



Cam Lift Hinge



Electrified Cam Lift Hinge

Acoustical Door Panels with a Bullet Resistant Rating



Krieger doors enhance the building acoustics by exceeding the ANSI Standard S12.60-2002, and now they add safety with an included bullet resistant rating UL 752. Plus, all Krieger doors are manufactured to your requested size, style, and finish.

Acoustical Rating

STC 45 - 48

STC 49 - 53

Bullet Resistance

UL Level 1 & 2

UL Level 3

Need a higher bullet rating?
Contact us

Special Purpose Windows

Whether you need blast, bullet, acoustical or a hybrid of all three, Krieger windows can be custom designed to be the centerpiece of any architectural setting. From odd shapes and sizes, to unique curves and frames, Krieger special purpose windows offer you endless options—regardless of the heavy-duty tasks they are performing.



Oversized and Curved
Stainless steel, custom curved windows



Round
Custom-shaped circular acoustical windows



Combo
Acoustical window, door and frame

The Sliding Control Room Acoustical Window

The unique acoustical window opens to allow for easy communication, then when closed the window provides complete sound control—exactly as you would experience with a non-sliding window.



Krieger Windows Embellish Former Early 1900s Ballroom



From its humble beginnings in a private home in 1917, the world-renowned San Francisco Conservatory of Music has grown to serve over 1,300 students and more than 1,500 public performances annually. Having outgrown its previous location of 50 years, the SFCM relocated to a newly expanded and refurbished facility in a building originally built as a ballroom in 1914.

As the building's historical terracotta façade, 50 by 70-foot plaster ceiling, pilasters, cornices and ceiling ribbons had all been miraculously preserved, the architect, Simon Martin-Vegue Winkelstein Moris chose to retain the historical features and combine them with elements of modern design. The end result is a new \$80 million, 72,987 square foot facility that nearly doubles the Conservatory's original size and now includes three state-of-the-art performance halls, one of which is large enough to hold a full orchestra and chorus.

The acoustic quality of the building was the

highest priority. Kirkegaard & Associates, famous for their acoustical contributions at Carnegie Hall and Chicago's Orchestra Hall, were brought in to oversee every aspect of acoustical design. Kirkegaard's expertise was combined with the talents of the architects, theatrical consultants, and project managers to guarantee a building with superior sound. Being the first to introduce many of the major innovations that lead the special purpose door and window industry today, Krieger was the obvious choice to guarantee acoustical windows with superior performance.

Krieger custom designed a total of 59 windows, rated STC 52. Most were 43" by 21" in size, but the project also included several custom sizes, such as 13" by 46," 15" by 46," 116" by 105", and 169" by 45." Krieger's noise-control windows were installed at various locations throughout the building where acoustics and grand architectural style were most important.

KriegerShield

Radio Frequency Doors



Krieger's radio frequency doors are used in installations where TEMPEST standards are required, or where a radio frequency barrier for high frequency shielding is needed.

Robust Seal

Krieger's unique radio frequency seal does not use a knifed edge found in other radio frequency doors. Rather it is similar to robust weather stripping, dramatically increasing the door life while reducing maintenance costs.

ADA Compliant

Krieger's radio frequency doors meet the ADA threshold requirements of 1/2 inch without portable ramps, allowing them to be used in any location.



Radio Frequency Shield

≥ 60dB of shielding effectiveness in the electric, planewave, and microwave fields in the frequency range of 1 KHz to 18 GHz.

Magnetic field shielding performance meets the requirements of NSA 73-2A (1 kHz, 10dB; 10 kHz, 20 dB, 100 kHz, 30dB, and 1 MHz, 40dB).



Tests and Certifications

IEEE 299 Standard

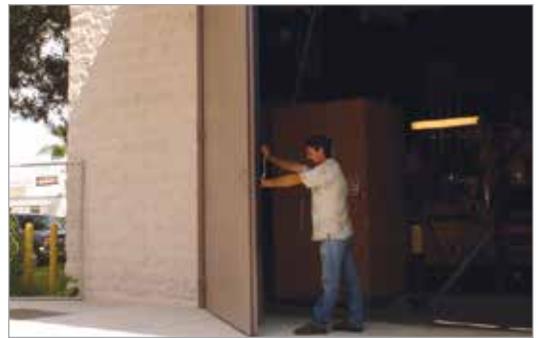
NSA 65-6

Division 8 Standard

MIL STD-285

Optional combination of STC 50 rating in a single door.

Krieger's Products and Services Exceed The Limit



When the University of Redlands, located in the city of Redlands, California, was completing renovation of its beautiful 140-acre campus, the expansion of an existing on-site electrical plant was high on the priority list.

The expansion comprised of a \$5.5 million building and a brand new 1,500-kilowatt Caterpillar generator powered by natural gas installed to share the campus electric load. With the building and generator located on campus, it was immediately clear that powerful, large-sized acoustical doors would be required to prevent noise leakage while providing necessary access to the plant machinery. Sierra Wholesale, specializing in a commercial line of finishes and hardware, selected Krieger to manufacture the oversized acoustical doors specified for the project.

Once the shop drawings were approved, Krieger quickly went to work to produce the doors and frames as specified. When it was later discovered

that measurements provided in the original drawings were inaccurate, although not at fault, Krieger took the initiative to remanufacture the doors and frames at no cost to the contractor. "Dedication, hard work, and the will to go beyond what is expected is what our customers turn to us for," comments Bob McCluney, Krieger's President. "It's the reason we have the kind of loyal customer relationships that we have."

In all, seven acoustical doors were produced:

- **One:** 1 3/4" thick, 36" by 86" door and frame rated STC 51
- **One:** 3" thick, 188" by 158" door and frame rated STC 55
- **One:** 2 1/8" thick 100" by 86" door and frame rated STC 50
- **Four:** 1 3/4" thick, 36" by 86" door and frame rated STC 45

KriegerPlate

Bullet and Forced Entry



Security experts and Defense Department officials have relied on Krieger to develop custom doors and windows engineered for today's security ratings.

Krieger's bullet and forced entry door and window is designed to protect personnel and property from small arms fire.

Plus, every door and window is custom manufactured to the size, shape, configuration, and finish option your project needs.



Bullet Resistance

UL 752, N.I.J. (0108.01) Levels 1 - 9

Available in both metal and wood veneer

NIJ Levels I, IIA, II, IIIA, III & IV

Available in both metal and wood veneer



Ballistic Standards

MIL-SAMIT Part 1 80 Ball

MIL-SAMIT Part 2 (AP) Armor Piercing rounds

NATO M80 25 shots in an 8 inch circle

Bullet Accessories



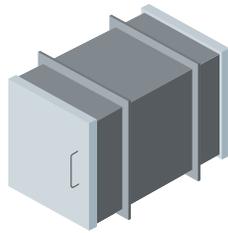
Voice Port: Levels 1-8



Gun Port: Levels 1-8



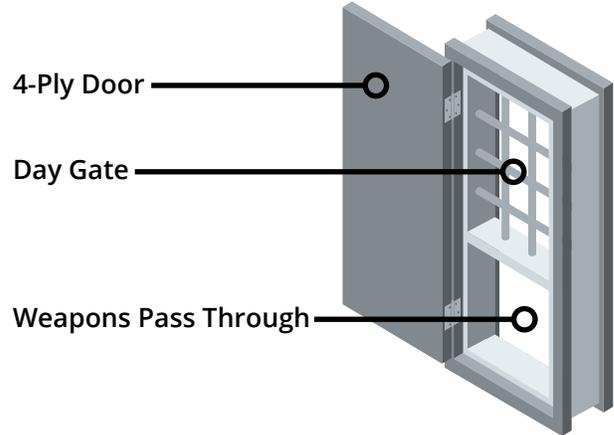
Pass Through Trays



Transfer Boxes

UFC 4-215-01 Issue Port Door

Krieger has specifically designed this door to meet UFC 4-215-01 for the Armories and Arms Rooms criteria. The door has the required day gate, weapons pass through opening with removable hatch, and 4-ply door. Plus, the door comes with the required hardware installed.



Forced Entry Door

Krieger's forced entry door was tested to the SD-STD-01.01 Forced Entry and Ballistic Resistance Standard—exceeding the 15-min test twice. Furthermore, the door remained functional even after stopping multiple rounds of 7.62 mm from a NATO rifle—firing 150 gr. full metal jacket ammo. Then, the door withstood a six-man team attacking the door with everything from sledgehammers to battering rams.



Watch the Door Being Tested to the SD-STD-01.01 Forced Entry and Ballistic Resistance Standard at www.kriegerproducts.com/bullet/

Wall Panels

Bullet resistant fiberglass wall panels are available and have been tested in accordance with UL 752 for levels 1-4 (levels 5-8 are pending).

Optional Features

- Acoustical - Up to STC 55
- Blast Resistant - UFC 4-010-01

KriegerBlast

Blast and Pressure



Krieger's blast and pressure doors are used in commercial, government (UFC, ATFP or others), and industrial (PIP) installations to protect personnel and property from explosions and explosion borne missiles.

Each door is engineered to the desired resistance level. Pre-engineered and custom models for static or dynamic reflective loads, including designs to meet UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings.

Like all Krieger products, the doors and windows are custom manufactured to the size, style, and finish requested.



Resistance Levels

Pre-engineered available in:

100 PSF, 1.0 PSI, 2.0 PSI, 3.0 PSI

Custom engineered available up to:

20.0 PSI static load



Tests and Certifications

UBC, NIJ, ASTM, and Haz Mat

UFC 4-010-01 and TM5-1300

ICC 500 (FEMA P-361)



Historic Preservation and Security in One Door

Krieger's door and window units can be designed to maintain visual compatibility with historic buildings by maintaining shadow lines, planar qualities, profiles, and overall appearance.

Plus, Krieger offers functional mullions, operating sashes, and other details to ensure the new door or window complies with the National Historic Preservation Act.

Contact us to discuss your unique needs.

Blast Door Construction

Formed, heavy gauge, steel face sheets constructed around a custom engineered, steel rib core with interior armor plate as required to protect against specified blast level.

Multi-point Lock

Doors can be fitted with a multi-point lock or SAT device and continuous hinging systems for added protection.

Hardware

Swing door hardware includes modified builders' hardware or Krieger manufactured locks and hinges as required by blast rating.

Slide door hardware includes low friction trucks and rollers, low-voltage control circuitry for electrical operators, and a variety of operator actuation devices.

Customers with Assemblies by Krieger

The Pentagon	Offutt AFB
Ft. Hunter Liggett Training Center	F.E. Warren AFB
Hickam AFB	Warner Robins AFB
Naval Base Pearl Harbor	Andersen AFB
Naval Base Kitsap-Bangor	Pennsylvania Army National Guard
Ft. Riley Hospital - Army	Milwaukee Army Reserve
Jefferson Barracks Air National Guard	Navy Fleet Training Center
Air National Guard Fire Station	Washington D.C. Navy Yard
Naval Weapons Station Test Lab	Department of Defense
San Onofre Beach Club - Historic	Lockheed Martin
Louisiana National Guard - Historic	Qualcomm
March AFB - Historic	Sandia National Labs
USMC Mt. Warfare Training Center	Defense Mapping Agency
Buckley AFB	Raytheon GWRT System Facility
Utah Data Center	Northrop Grumman - CA, MD, FL, IN
Andersen AFB, Guam	Buckley AFB
Flight Simulator Facility, AZ	Kirtland AFB
Vandenberg AFB	



STC 50, Blast 200 PSF rated, Ballistic Level 3 and UL 3-hour fire rated

Tornado and Hurricane



Krieger's specially designed tornado and hurricane doors have been tested to resist the wind speeds designated in ASCE 7 and the higher wind speeds designated in the ICC 500-2014.

FEMA Compliant

While FEMA P-361-2015 does not certify products, Krieger doors have passed the ICC 500-2014 testing and they meet or exceed FEMA P-361 and FEMA 320 safe room criteria.

ADA Compliant

Krieger's tornado and hurricane doors meet the ADA threshold requirements of 1/2 inch without portable ramps, allowing them to be used in any location.



Wind Speeds

Tornado

Wind speeds for the tornado storm shelters shall be 250 mph regardless of location.

Hurricane

Wind speeds for the hurricane shelters range from 160 mph to 220 mph.



Tests and Certifications

ICC 500-2014

FEMA P-361-2015

ASTM E1886

FEMA 320-2014

Hardware for Krieger's tornado and hurricane doors complies with NFPA 101-Life Safety Code and closes by itself to provide real security within the shelter.

Krieger Delivers Critical Precision for Nitrate Vaults



Tucked deep into a mountainside near Culpeper, Virginia, a former Federal Reserve facility in Mount Pony was resurrected as the Library of Congress' new National Audio-Visual Conservation Center (NAVCC), the world's largest and most comprehensive collection of film, television, radio, and recorded sound.

To create this state-of-the-art facility, Smith Group, an architectural firm founded by Sheldon Smith in 1853, was selected to lead the renovation in two phases. Phase I involved the repurposing of the original structure, while Phase II concerned itself with the addition of approximately 258,500 square feet, including a newly constructed Nitrate Vault Building. Because cellulose nitrate film is flammable and highly explosive it must be kept at a constant temperature of 50 degrees Fahrenheit and 6.0 grains of moisture. For proper preservation and safety, the construction of the vaults themselves was one of the most crucial aspects of the facility.

Contracted by DPR Construction, J.S. Archer, an expert in commercial and industrial door hardware, hired Krieger Specialty Products for the very precise work required on the doors to the Nitrate Vaults. Highly acclaimed as one of the nation's leading blast door manufacturers, Krieger was tasked with custom manufacturing 124 interior blast resistant doors with a 1.0 PSI rating.

Each door was fashioned out of cold-rolled steel and finished off with a vision light, a 3-hour fire rating, and prime paint. Because the blast doors and frames were being fit into existing openings, the project had a low tolerance for measurement differentials and required the kind of manufacturing precision that Krieger has built its reputation on.

Custom Finishes to Match Your Project

Simply send us a sample of the finish you wish to match.



Wood Finishes

Wood veneer doors and windows may be sand-finished, primed, sealed with conversion synthetic sealer or completely prefinished prior to shipping.

Forest Stewardship Council (FSC®) Finishes

Krieger is proud to offer wood finishes certified by Forest Stewardship Council® (FSC) an independent, non-governmental, not-for-profit organization established in 1993 as a response to global deforestation. Contact us for more information or to request FSC certified finishes.



Plastic Laminate Finishes

Krieger doors and windows may be finished with plastic laminates from any of these companies.



Unique Finishes

Krieger doors and windows can be custom finished in an endless variety of options.

- Moldings
- Stones
- Bronze
- Brass
- Copper
- Etched Glass

National Historic Preservation Act Finishes

The door and window units can be designed for visual compatibility with historic buildings by maintaining shadow lines, planar qualities, profiles, and the overall appearance of the historic features. Also, Krieger offers functional mullions, operating sashes, and other details to ensure the new door or window complies with the National Historic Preservation Act.



Stainless Steel Finishes

Stainless steel finishes can be embossed, patterned, etched, bead blasted and colored.

304 - Non-hardenable, austenitic (non-magnetic), low-carbon, chromium-nickel steel, which has a good general purpose corrosion resistance.

316 - Non-hardenable, austenitic, chromium-nickel steel with superior corrosion and heat resistance qualities. Sometimes referred to as "marine stainless", this grade is non-magnetic in the annealed condition. 316L is also available.

What Goes Into Making a Krieger Door

Strength and Durability

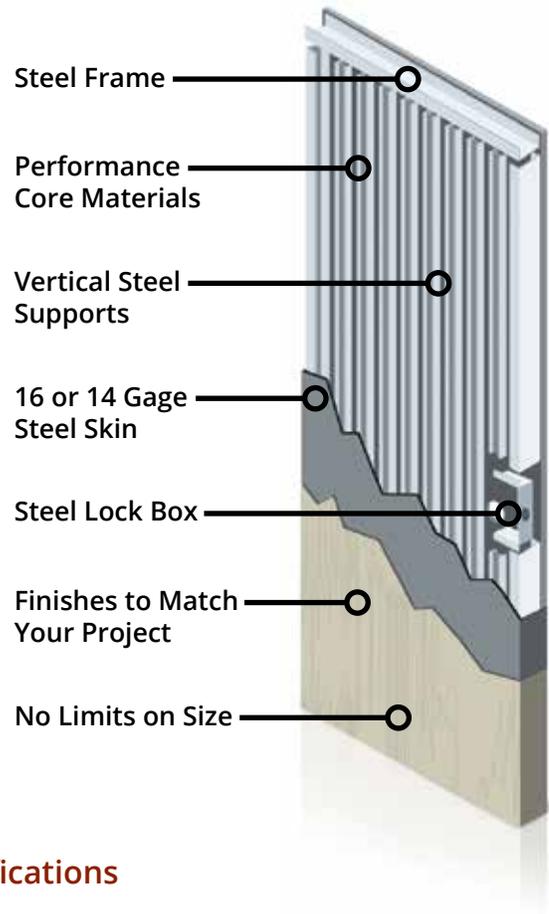
If your door needs to block an explosion, protect personnel, or stand-up to wear and tear, the superior strength built into every Krieger door will keep it operating.

Match Your Style

Whether your project requires painted metal, stainless steel, or a door adorned with a specific veneer, Krieger doors can achieve the aesthetics while meeting the engineering demands.

Customized and Oversized

Every Krieger door is custom manufactured to your unique needs, regardless if you need an acoustical, bullet, blast, pressure, radio frequency shielding, tornado, hurricane, or any hybrid combination.



Every Door is Custom Manufactured to Your Specifications

About Krieger

Since 1936, Krieger Specialty Products has been a leading manufacturer of specialized door and window products for acoustical, blast resistant, bullet resistant, radio frequency shielding, tornado, and hurricane applications. Built to your precise specifications, Krieger doors and windows have been the choice for premier structures all over the world.

KSP21019



Made in the USA

All Krieger's products are proudly designed and manufactured in the United States.



Krieger is part of U.S Federal Government's System for Award Management (SAM.gov).