

# Special Purpose Doors & Windows

Acoustical

Blast and Pressure

Bullet Resistant

Stainless Steel

Thermal Shielding

Radio Frequency



# KriegerSonic®

## Acoustical Door and Window Assemblies

Krieger's line of metal and wood sound-reducing doors and windows are used in premier live performance venues and industrial applications where sound containment is of primary concern.

### STC Ratings

**Door assemblies:** Up to STC-55, metal and wood veneer  
**Windows:** Up to STC-56

### Configuration

Available in flush design or with vision lites and as single or pairs of hinged doors, including horizontal sliding doors. All assemblies are available manual or power operated.

### Test and Certification

ASTM E90, E336, E1408, E413  
SCiF: JUIAF, JAFAN, DCID 6/9, ICPM 2006-700-7

### Hardware

Door, frame, perimeter sound seals, and door bottom are supplied as part of the complete tested assembly. Additionally, cam lift hinges and an aluminum threshold are included with high STC rated doors.

### Fire Labels and Positive Pressure

**Metal doors up to 3 hours:**  
Certified in accordance with UL 10C, UBC 7-2, UBC 7-4  
250°, 450°, 650° temperature rise, up to 3 hours UL 10C  
**Smoke Labels:** Up to 20 minutes

### Glass

Tested and certified acoustical glass or fire rated glass and glazing materials are available.

### Wood doors up to 45 minutes:

**Smoke labels:** Up to 20 minutes



# KriegerPlate®

## Bullet Resistant Doors, Windows and Accessories



Krieger's bullet resistant doors, windows and accessories are designed to protect personnel and property from direct arm fire. KriegerPlate offers bullet and ricochet resistant doors, frames, windows; pass-through trays, transfer boxes, gun ports and voice ports.

### Resistance Levels

Levels 1 - 8 available in both metal and wood veneer

### Configuration

Available in flush design or with vision lites and as single or pairs of hinged doors, including single or bi-parting horizontal sliding doors. All assemblies are available manual or power operated.

### Test and Certification

UL-752

### Hardware

Operating hardware is available in all standard builders finishes. Mortise or cylindrical locksets, exit devices, and security hardware are basic options. Custom options are available.

### Fire Labels and Positive Pressure

Up to 3 Hours: UL 10C, UBC 7-2, UBC 7-4 250°, 450°, 650°  
temperature rise, up to 3 hours UL 10C  
**Smoke Labels:** Up to 20 minutes

### Glass

Calculated and certified glass or glass/polycarbonate glazing materials are available. (If glazing is provided by others it must bear a visible UL 752 mark.)



# KriegerBlast®

## Pressure Resistant Doors, Windows and Assemblies

Krieger's pressure resistant door and window assemblies are used in commercial and industrial installations designed to protect personnel and property from explosions and explosion-borne fragments.

### Resistance Levels

Pre-engineered available in: 100 PSF, 1.0, 2.0 Static, 3.0, 4.0, 10.0 Dynamic. Custom engineering up to 25 PSI.

### Configuration

Available in flush design or with vision lites and as single or pairs of hinged doors, including single or bi-parting horizontal sliding doors. All assemblies are available manual or power operated.

### Test and Certification

UBC, NIJ, ASTM and Haz Mat  
UFC 4-010-01 and TM5-1300

### 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.

### Fire Labels and Positive Pressure

Up to 3 Hours: UL 10C, UBC 7-2, UBC 7-4  
250° 450° 650° temperature rise, up to 3 hours UL 10C  
Smoke labels: Up to 20 minutes  
Available on the pre-engineered models.  
At custom engineered pressure levels, consult with factory.

### Glass

Calculated and certified glass or glass polycarbonate glazing materials are available.



# KriegerSatin®

## Stainless Steel Doors and Window Frames

Krieger's stainless steel doors and window frames are used in situations where exposure to severe weather, salt and/or corrosive compounds is a concern, in situations requiring constant washing and sterilization, or where high-quality aesthetics are desired.

### Materials

**304** - Non-hardenable, austenitic (non-magnetic) low carbon chromium-nickel steel which offers 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 for situations requiring welding of heavy sections.

### Configuration

Available in flush design or with vision lites and as single or pairs of hinged doors, including single or bi-parting horizontal sliding doors. All assemblies are available manual or power operated.

### Finishes

**Mill finish:** With or without primer; sandblasted  
**Mechanically polished and brushed finishes:** #4, #6 or #8  
**Patterned finishes:** A wide variety commercially available

### Fire Labels and Positive Pressure

Up to 1.5 Hours: UL 10C, UBC 7-2, UBC 7-4  
Smoke labels: Up to 20 minutes

### Windows

Standard or sloped, metered and polished to specified finish. One side secured by welding to opening, the other applied by stainless steel screws.



# KriegerShield®

## Radio Frequency Doors and Windows

### Radio Frequency Shield

Maximum 60 dB from 1kHz - 10GHz

### Test and Certification

NSA 65-6 and MIL STD-285

### Fire Labels and Positive Pressure

Up to 11/2 Hours: UL 10C, UBC 7-2, UBC 7-4  
250°; 450°; 650° temperature rise, up to 11/2 hours UL 10C  
Smoke labels: Up to 20 minutes

### Configuration

Single or pairs of hinged doors in standard and custom sizes, manual or power operated. Assemblies can be used in any type of shielding construction.



# KriegerEqualizer®

## Thermal Barrier Doors

### Thermal Protection

U-Value .504, R-Value 2.0, True Thermal Break assembly including door, frame and hardware

### Test and Certification

ASTM C236-80

### Construction

Constructed with 16 ga. galvanized skins reinforced with internal steel stiffeners, separated by structural isolator. No metal-to-metal contact. Doors are factory insulated per ASTM D1940, 2# density rigid urethane, foamed in place and chemically bonded to interior surface.

### Configuration

Flush design or with vision lites. Single or pairs of hinged doors, including single or bi-parting horizontal sliding doors available manual or power operated.

## Technical and Installation Support

Krieger engineers and technical support staff are available by phone, at no cost to you, to help with any problem or question that may arise with the installation of our doors. Additionally, Krieger's field service offers you several ways to ensure that your doors and windows are installed correctly.

### Krieger Turn Key Installation

With this option our technicians actually undertake all phases of the installation process. By accepting full responsibility for the installation Krieger guarantees that every door will perform to precise specifications.

### Krieger Testing

Field testing is the only certain way to ensure that your doors will achieve the performance you have specified. Krieger engineers are experts in the testing and certification of acoustical doors and are available to perform on-site testing per your request.

### Krieger Training

We can train your installation crew at our manufacturing facility, or we can have one of our technicians meet with your crew on the job site.

### Krieger Troubleshooting

Our staff will determine the problem and recommend or undertake the proper corrective measures. Often our services are needed to resolve post-installation problems related to modifying door swings, strike locations or other hardware-related problems.

## Regional Offices

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