



## ACOUSTIC, FIRE RATED & BLAST RESISTANT DOORS

VG Engineering Inc. custom designed acoustic doors are available in STC (Sound Transmission Class) ratings from 42 to 61. Various configurations and options are available to meet specific customer requirements and industry standards.

- Swing and Horizontal Sliding Doors are available in Single-Leaf, Double-Leaf, Tandem or Bi-Fold Designs.
- All door configurations are independently tested and certified for acoustic, fire and blast resistance performance.

VG Engineering acoustic doors are tested in accordance with the American Society for Testing and Materials designation ASTM E90-2009 "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions". Tests are performed on fully operable doors to ensure that the panel, frame, seals and hardware are all included and measured for transmission loss.

Acoustic doors can be designed and built to meet explosion resistant and fire rating requirements.

VG Engineering Inc. doors are fire rated for up to 3 hours based on the following Underwriters Laboratories, Inc. (UL) Fire Testing Standards:

- UL 10C - Test of Door Assemblies
- UL 10B /UBC 7-2 - Positive Pressure Fire Tests of Door Assemblies

Fire Rated Doors are supplied with metal fire rating labels.

Doors can be supplied in a range of paint finishes, standard finish of mild steel doors is zinc rich primer.

**Upgrade and Modifications to existing acoustic doors is also undertaken**



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### Acoustic door features include:

- Heavy Duty, low maintenance, high quality hardware for long trouble free life
- Single leaf and smaller double leaf doors are fully shop assembled and shipped in their frames ready for fast and easy site assembly
- Large double leaf doors are trial shop assembled and sent to site complete with installation hardware for easy single lift installation
- Perimeter seals include: compression seals, magnetic seals and pneumatic seals
- Threshold seals include: automatic and pneumatic seals

### Options Include:

- Panic Release Hardware
- Motorized Drive Systems
- Viewing window
- Hydraulic Latch Systems
- Construction using mild steel, galvanized steel and stainless steel.

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**APPLICATIONS INCLUDE:** ENGINE TEST CELLS | MECHANICAL ROOMS | R & D DEVELOPMENT |  
GAS TURBINE ENCLOSURES ANCILLARY EQUIPMENT ENCLOSURES | HAZARDOUS MATERIAL STORAGE FACILITIES | SOUND STUDIOS  
CONFERENCE CENTERS | THEATERS