

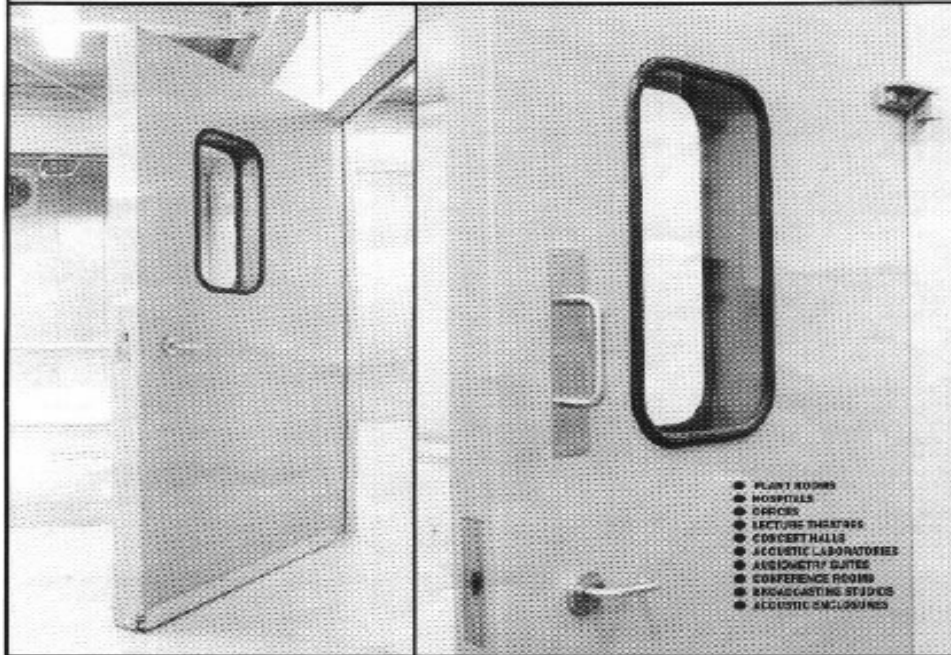
## **Acoustic Doors**

Barclay engineering manufactures high quality acoustic rated doors for use in buildings where there is a requirement to limit noise transfer from one area to another. The doors are customized to suit the application, and these have included plant rooms, hospitals, offices, lecture theatres, concert-halls, acoustic laboratories, audiometry suites, conference rooms, broadcasting studios, and all types of acoustic enclosures. While we can supply the doors as ready to fit, due to the precision required to install the larger doors, we recommend the installation be carried out by our fully trained personnel.

Typically the doors are made from PGI (galvanized), black mild steel, or for aggressive environments, stainless steel. Door handles and hinges designed to cope with the heavy loads imposed by the doors are included. Other types of hardware such as wedges, locking worms and panic bars can also be fitted to these doors (subject to availability & performance). Items such as drop seals, acoustic door seals and single or double glazed windows have all been fully tested and approved for use in critical applications.

Doors can be finished in a variety of coatings including - base primed, standard enamel paint or powder coated. Stainless steel doors can be provided as finished or polished.

- Robust Construction
- Doors supplied Complete with All support Frames and Hardware
- Available in a Wide Range of Different models and Acoustic Ratings
- Various Sizes and Mounting Configurations Available
- Full Design, Manufacture and Installation Service Available
- All Doors can be Custom built to suit your specific requirements
- Standard or Double Leaf Door assemblies



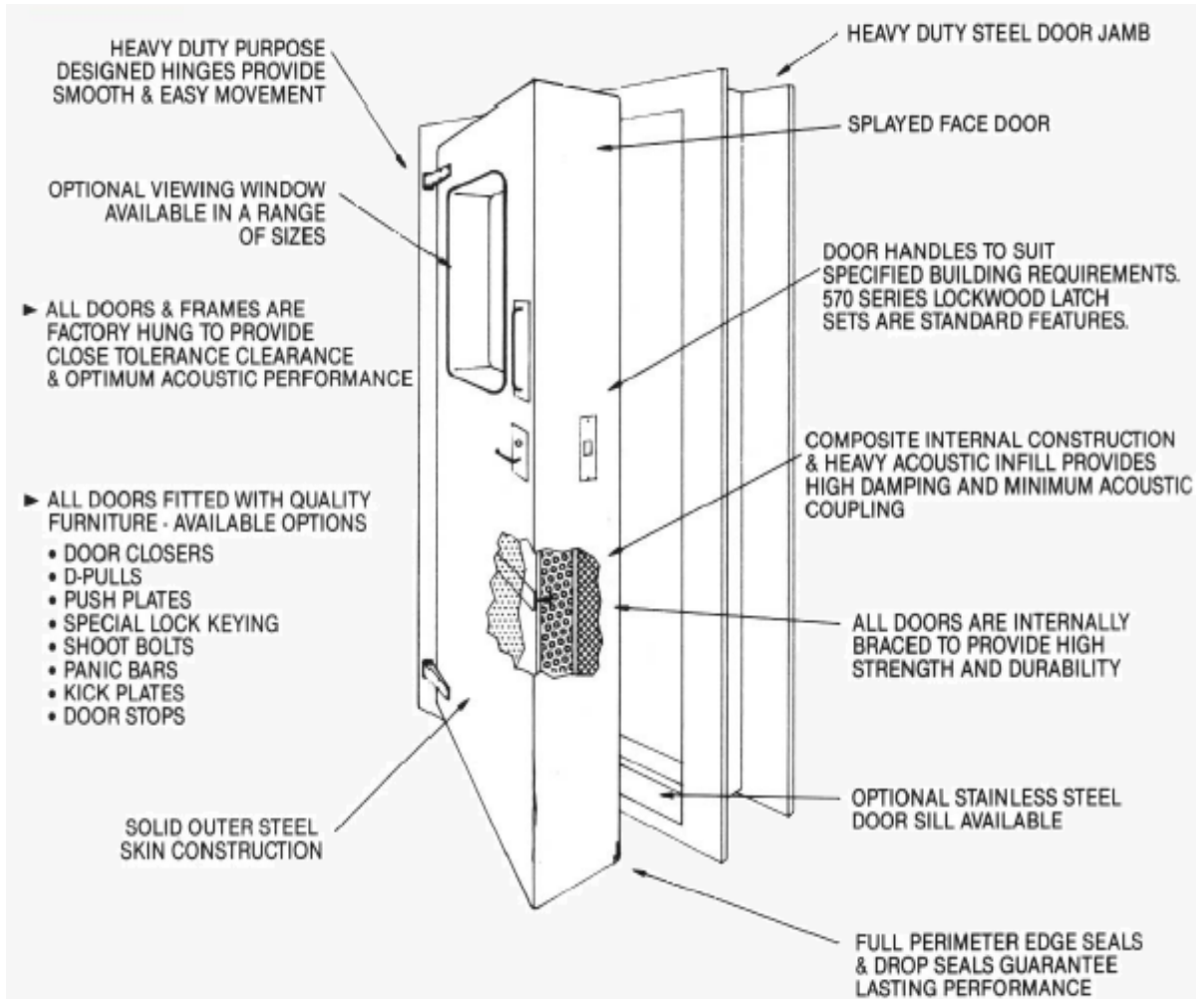
### **MODEL DESCRIPTION – METAL ACOUSTIC DOORS**

Barclay Engineering Manufactures High Quality Acoustic Rated Doors For Use By Builders, Architects And For Any Existing Situation. Installation Can Be Carried Out By Our Fully Trained Personnel Or We Can Supply Ready To Fit.

All Doors Are Manufactured From The Best Quality Materials. General Construction Of Doors Are In PGI (Galvanised) Material, with Black Mild Steel or Stainless Steel (For Those Aggressive Environments) Available By Request As A Result Of Ongoing Research, Various Types Of Acoustic Barriers Can Be Fitted To Any Door.

Door Handles Hinges And Other Types Of Hardware Can BE Fitted To These Doors (Subject To Availability & Performance). Items Such As Drop Seals, Acoustic Door Seals And Single Or Double Glazed Windows Have All Been Fully Tested And approved For Use In Critical Applications.

Doors Can Be Finished In A Variety Of Coatings Including - Base Primed, Standard Enamel Paint Or Powdercoat is Available. Stainless Steel Doors Are Generally Left As Manufactured.



The Table To The Right Gives An Indication Of The Performance Of Barclay Acoustic Doors.

Once Accurate Sound Readings Are Available For Your Specific Application, Barclay Staff Can Make A Recommendation On The Best Door For Your Noise Problem

### ACOUSTIC PERFORMANCE - METAL DOORS

		SOUND TRANSMISSION LOSS (dB)*							
OCTAVE BAND CENTRE FREQUENCY (Hz)		63	125	250	500	1k	2k	4k	8k
MODEL OSD 100	STC 40	20	23	33	37	41	42	43	46
MODEL OSD 150	STC 45	34	38	40	46	53	56	58	60
MODEL OSD 200	STC 50	37	40	45	52	58	60	60	62

\* TRANSMISSION LOSS IS THE DIFFERENCE IN SOUND POWER LEVELS BETWEEN TWO REVERBERANT TEST CHAMBERS SEPARATED BY THE TEST PARTITION





