

Acoustic Door

Product Data

In a situation where there can be leaks around a door, through which sound can pass, there will be reduced sound attenuation. Therefore, not only does the fabrication period of **ISTIQ ACOUSTIC DOOR** is carried out in great care, but also the installation process is meticulously done to ensure high performance and quality. The importance of good sealing method can never be underestimated. A door with a reduction factor of 40dB with a leakage factor of only 1% will have a true reduction of 20dB.

Applications

ISTIQ ACOUSTIC DOOR are excellent for sound attenuation and fire resistant performance within certain environments that need a control of sound transmission through doorways.

Typical applications are as the following:

- control rooms
- music rehearsal areas
- office buildings
- genset room
- recording studios.
- hotels and hospitals.
- plant rooms.

Construction

ISTIQ ACOUSTIC DOOR come in two different types; steel and timber. They are designed to have a combination of superb acoustic performance with attractive finishes and easy installation.

The doors consist of door leaves that contain an acoustic infill, selected to provide high damping and minimum acoustic coupling to ensure high transmission loss.

The outer and inner skins are of two different thicknesses to control the resonance effect. The doors come in complete sets that include frames, latch, locking system, hinges and door closer where applicable.

For steel doors, high gauge steel is used in constructing the door frame to rigidly support the door leaves.

Due to the heavy weight of the door leaves, a special designed adjustable ball bearing hinges are use to ease the opening and closing of the door.

For timber doors, high quality veneer finishes are used to ensure best performance and aesthetically satisfying.

Dimensions

The standard sizes of **ISTIQ** Doors which can be delivered almost immediately are as follows:

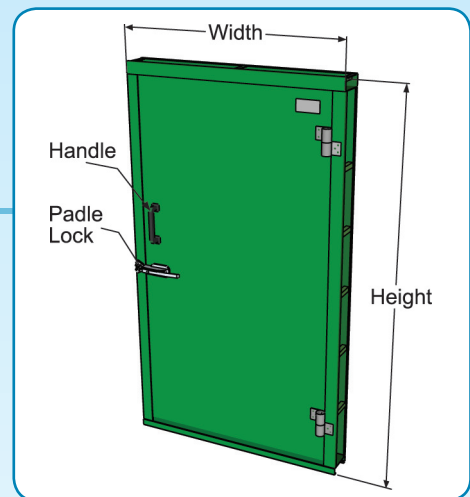
SINGLE LEAF

Thickness of 60, 100 & 150 mm	900 mmW x 2100 mmH
	1200 mmW x 2100 mmH
	1500 mmW x 2100 mmH

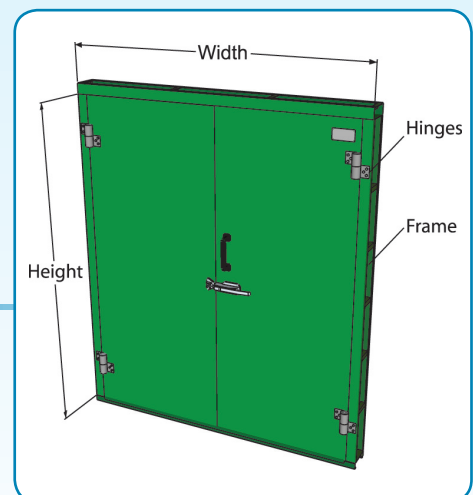
DOUBLE LEAF

Thickness of 60, 100 & 150 mm	1800 mmW x 2100 mmH
	2100 mmW x 2100 mmH
	2400 mmW x 2400 mmH

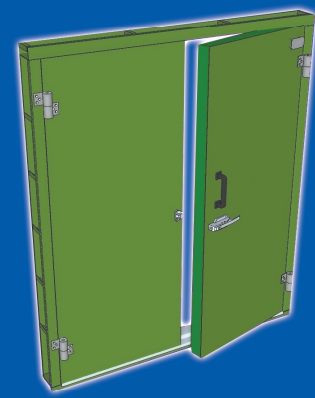
Other dimensions are also available on request with higher acoustic performance (STC) rating.



Single Leaf



Double Leaf

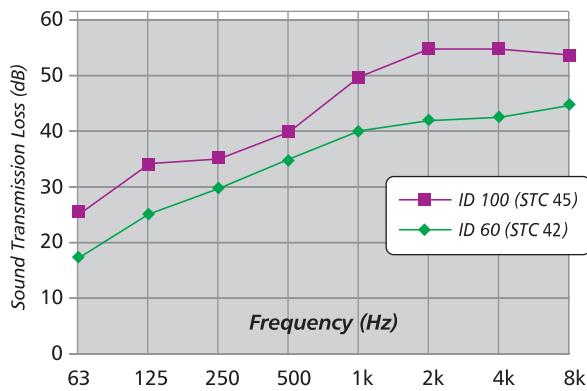


Acoustic Performance

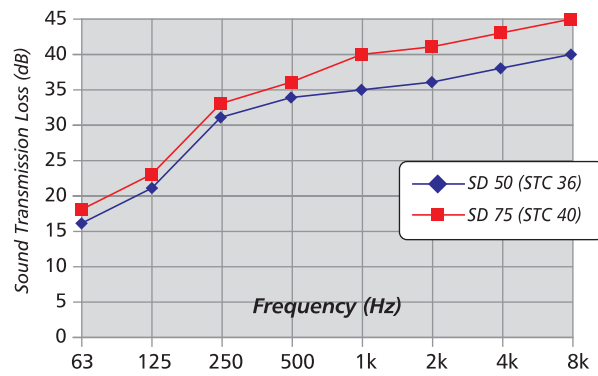
Data of Transmission Loss (dB) and STC Rating

ISTIQ STEEL Door Performance

Model	Thickness	Octave Band Center Frequency (Hz)								STC Rating
		63	125	250	500	1k	2k	4k	8k	
ID 60	60	18	25	30	35	40	42	43	45	35 / 42
ID 100	100	26	34	36	40	50	55	55	53	42 / 45



ISTIQ Steel Door Performance

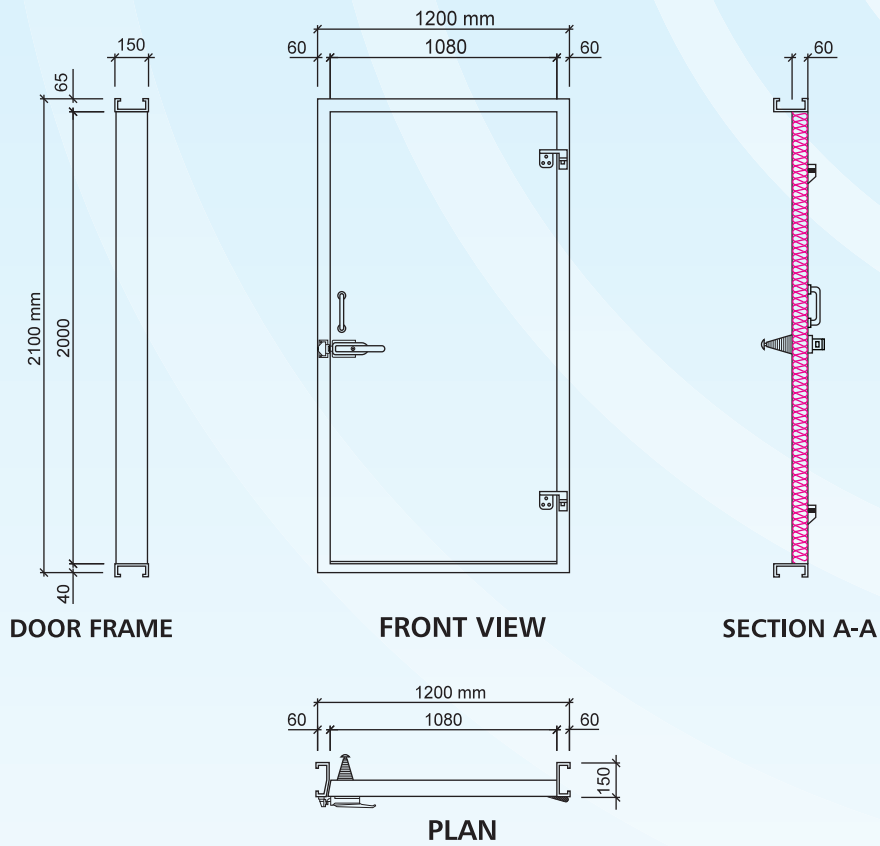


ISTIQ Timber Door Performance

ISTIQ Timber Door Performance

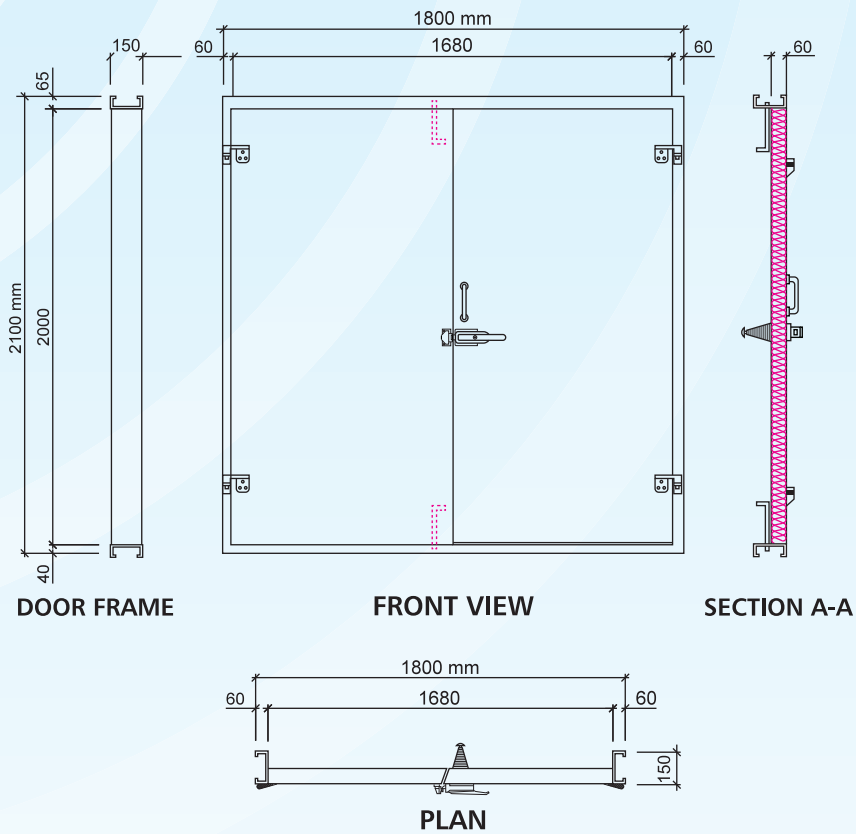
Model	Thickness	Octave Band Center Frequency (Hz)								STC Rating
		63	125	250	500	1k	2k	4k	8k	
SD 50	50	16	21	31	34	35	36	38	40	36
SD 75	75	18	23	33	36	40	41	43	45	40

Detail of ISTIQ Acoustic Door (Single Leaf) Dimension : 1200W x 2100H x 60THK



SIRIM Certified Product 

Detail of ISTIQ Acoustic Door (Double Leaf)
Dimension : 1800W x 2100H x 60THK



SIRIM Certified Product 