

NCO developed a range of metal doors for a variety of applications. These doors are being installed to effectively control noise and fire-resisting in conference rooms, broadcasting studios, theatres, acoustic laboratories, music practice rooms and machine equipment rooms.

Acoustic doors, tested in the accredited laboratory, equipped with compression seals around the periphery of the doors. Standard doors have an acoustic rating up to STC 50.

Fire doors are tested to BS476- Part 22:1987 with fire rating up to two hours for stability and integrity.

A wide range of high quality standard and optional fittings, e.g. windows, locks, etc., is available to meet individual customer requirements.

The following figures present the results for various doors:

#### ACOUSTIC DOOR PERFORMANCE

Model	Weighted Apparent SRI R'w (ISO-140-3)	Sound Transmission Loss (STC), dB (ASTM-E90)	Noise Insulation Class (NIC), dB (ASTM-E336)
39dB-MA	39	39	42
40dB-MA	40	40	42
41dB-MA	41	40	43
42dB-MA	42	40	42
43dB-MA	43	43	46
44dB-MA	44	44	46
45dB-MA	45	46	49
46dB-MA	46	44	46
49dB-MA	49	50	50



Model 42dB-MAF door under Lab. Test.



Model 45dB-MAF under Lab Test.

#### FIRE DOOR PERFORMANCE

Fire Code: (To BS 476: Part 22:1987)

Model	Stability	Integrity	Insulation
F60M	60 minutes	60 minutes	-
F120/F120A*	120 minutes	120 minutes	30 minutes*

**DOOR TYPE**

Door Type	Application	Acoustic	Fire-resisting	Acoustic & Fire
BASIC MODEL	Architectural/ Industrial	39dB-MA 40dB-MA / 41dB-MA 42dB-MA / 43dB-MA 44dB-MA / 45dB-MA 46dB-MA / 50dB-MA	F60M F120 F120A	39dB -MAF 41dB / 42dB - MAF 43dB / 45dB-MAF 46dB-MAF

**DOOR SPECIFICATION**

Door Type	Specification	Acoustic	Fire-resisting	Acoustic & Fire
DOOR LEAF (Single/ Single with half leaf/ double leaf types available)	Formed from rigid trays pressed from galvanized mild steel	Supplied hung in frame	F60M: Hollow Core F120: Hollow Core F120A: Solid Core	Supplied hung in frame
DOOR FRAME a) Mild Steel b) Stainless Steel	Galvanized mild steel pressed to standard profile	Standard Available	Standard Available	Standard Available
COMPRESSION SEALS		Standard	Not available	Standard
DOOR CLOSER	Available	Available	Available	Available
DOOR LOCK	Available	Available	Available	Available
VISION PANEL	Available	Available	Available	Available

**DOOR FINISH**

Door Type	General Purpose	Acoustic	Fire-resisting	Acoustic & Fire
PRIMER PAINT	Standard	Standard	Standard	Standard
FINISH PAINT	Available	Available	Available	Available
PLASTIC LAMINATE / VENEER	Available	Available	Available	Available

Note: Please consult NCO for special finishes.

**DIMENSIONS (STRUCTURE WALL OPENING, MM)**

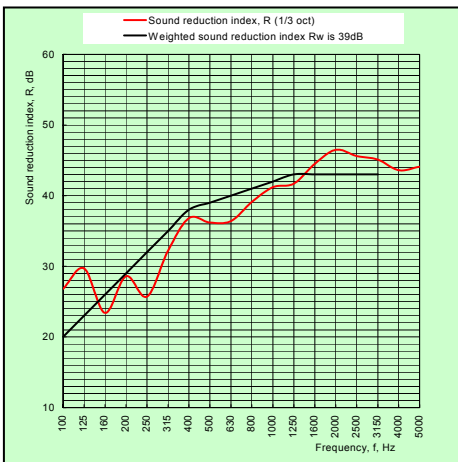
Door Type	39dB/40dB/41dB/42dB/43dB/44dB/ 45dB / 46dB / 49dB / F120 / F120A			
Leave	Single		Double	
	W	H	W	H
Standard Size	915	2125	1830	2125
Fire Door Size (Max.)	1049	2392	2384	2452

Note: overall frame size is 10mm less than Structural Work Opening for width and height.

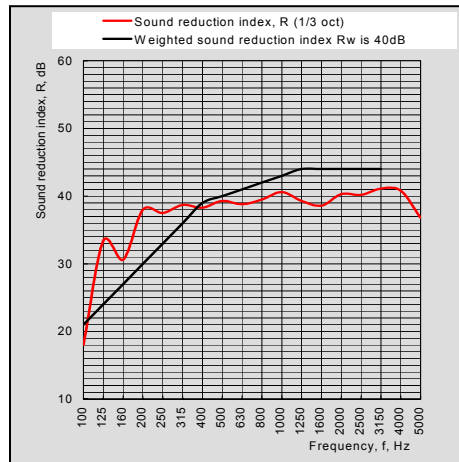
**DIMENSIONS (CLEAR DOOR OPENING = STRUCTURE WALL OPENING - VALUES BELOW)**

Leave	Single		Double	
Door Type	W,mm	H,mm	W,mm	H,mm
F60M / F120 / F120*	130	60	130	60
39/43dB-TAF	150	70	150	70
40/44dB-TA	220	110	220	110
41/42/45*/46dB-TAF	150	80	150	80
45dB-TA / 49dB-TA	210	120	210	120

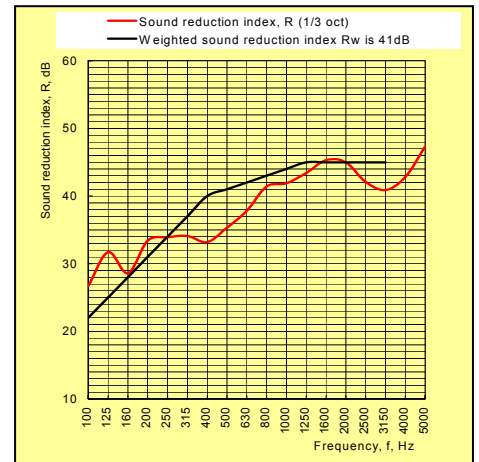
Note: These dimensions may be subject to change. Please confirm with Techwide.



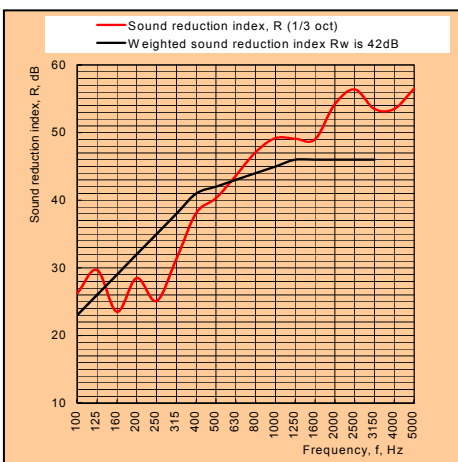
Model: 39dB (STC 39)



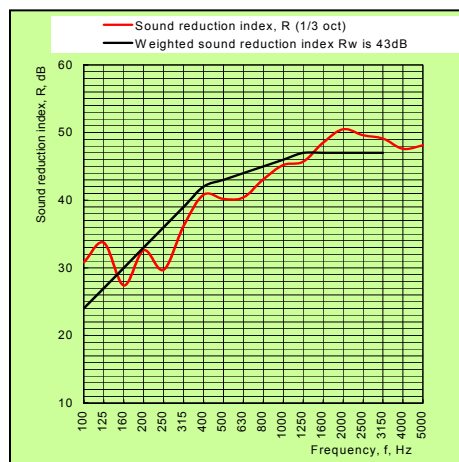
Model: 40dB (STC 40)



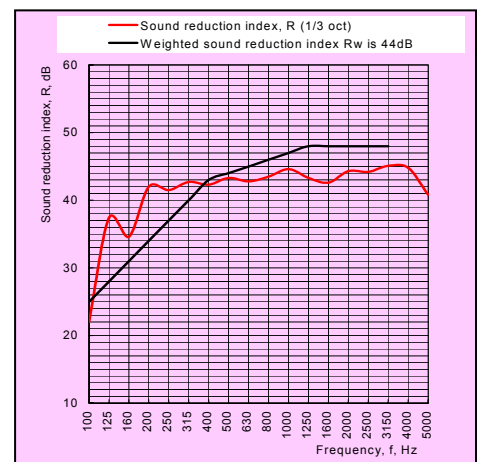
Model: 41dB (STC 40)



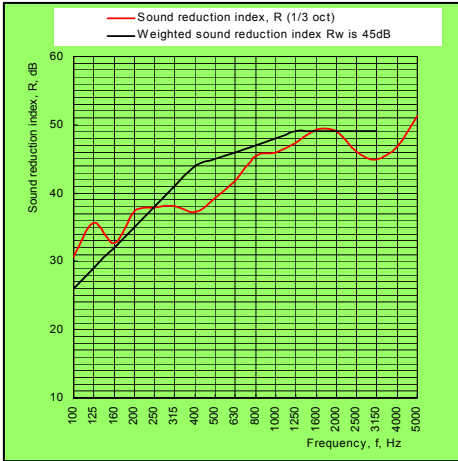
Model: 42dB (STC 40)



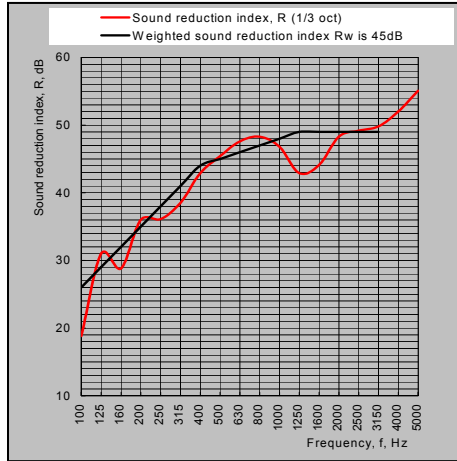
Model: 43dB (STC 43)



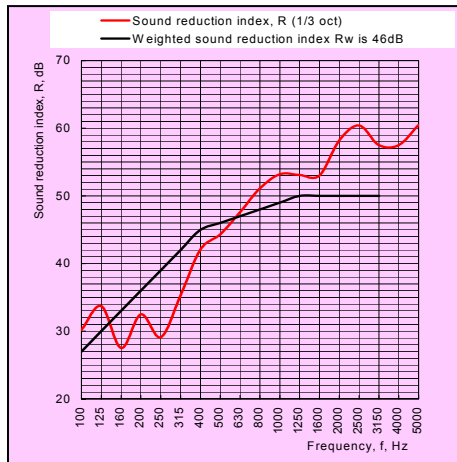
Model: 44dB (STC 44)



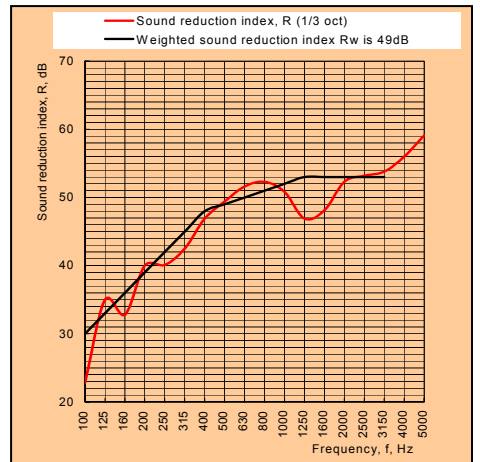
Model: 45\*dB (STC 44)



Model: 45dB (STC 46)

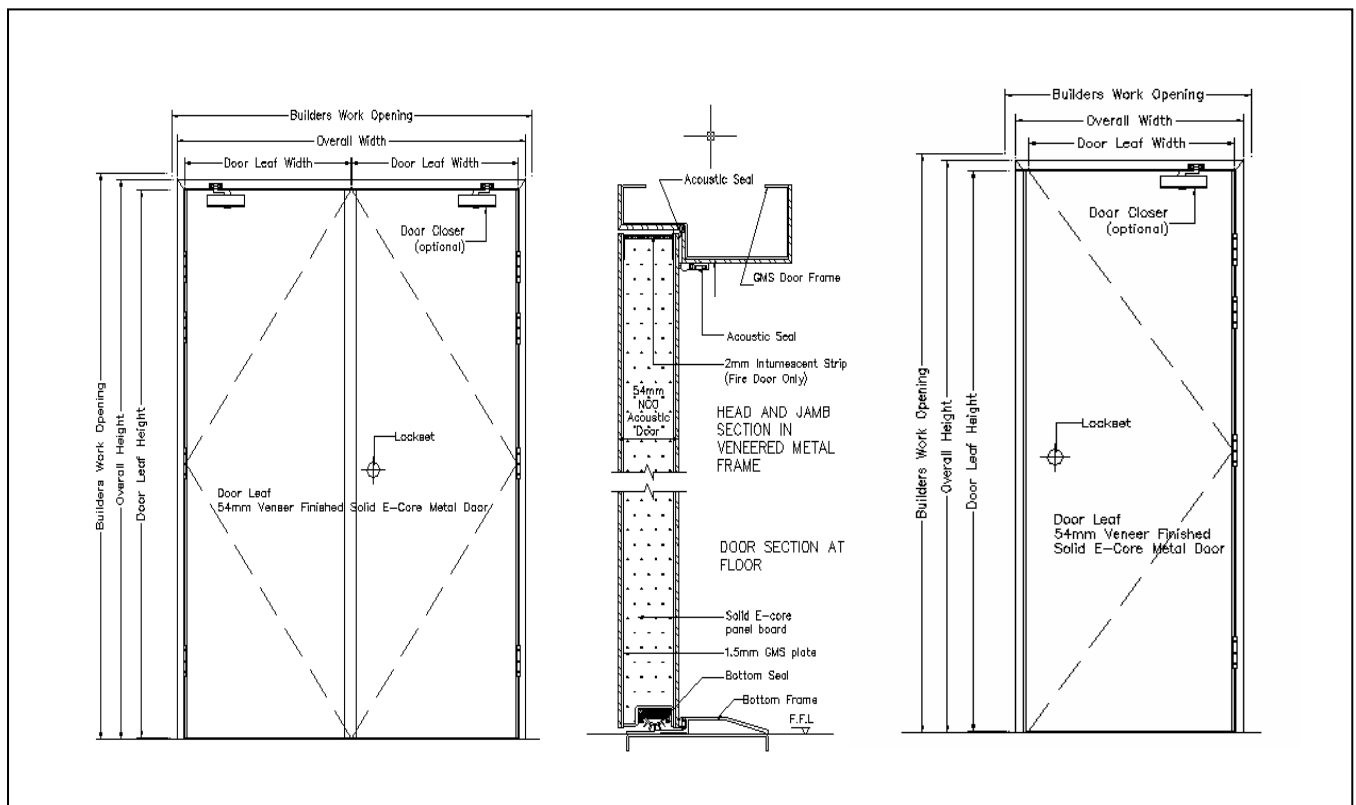


Model: 46dB (STC 44)

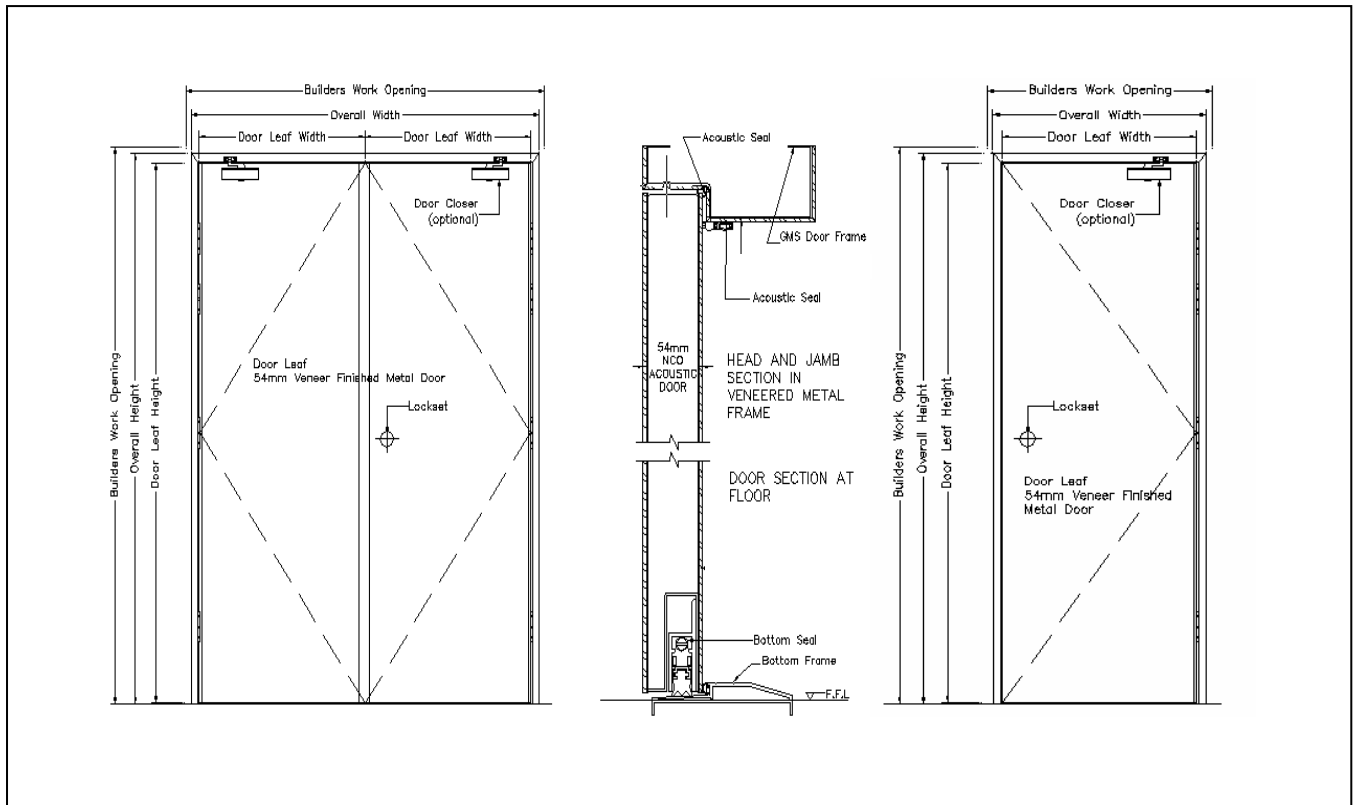


Model: 49dB (STC 50)

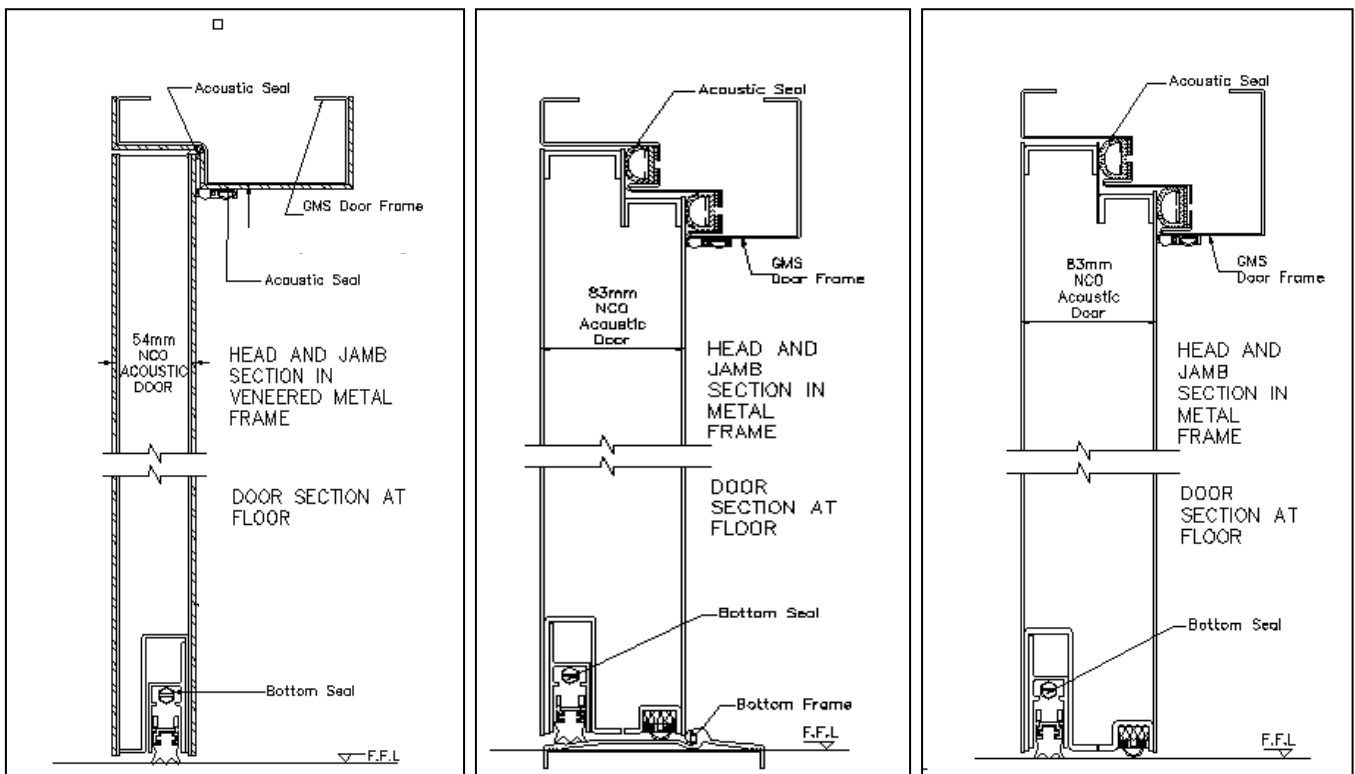
**OUTLINE DRAWING OF TYPICAL 41dB-MAF /45dB-MAF**



**OUTLINE DRAWING OF TYPICAL 42dB-MAF / 46dB-MAF**



**OUTLINE DRAWING OF TYPICAL 39dB / 43dB-MAF & 40dB / 44dB / 45dB / 49dB-MA**



Model: 39dB-MAF/ 43dB-MAF

Model: 45dB-MA / 49dB-MA

Model: 40dB-MA / 44dB-MA