

NCO developed a versatile 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 where noise pollution is one of the major concerns. 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. Many of the doors in the range also meet fire specification.

Fire doors are tested to BS476- Part 22:1987 with fire rating up to two hours for stability and integrity. The door ranges incorporate the latest acoustic technology and optimum in mechanical engineering design with high quality standard and optional fittings, e.g. windows, locks, closers, etc. are available to meet individual customer requirements.

The following figures present the performances for various models:



ACOUSTIC DOOR PERFORMANCE

Model (ISO-140-3)	Weighted Apparent R' _w	Sound Transmission Loss (STC), dB (ASTM-E90)	Combined Wall Rating, dB (ASTM-E413)
39dB-MAF	39	39	44
42dB-MAF	42	40	45
44dB-MA	44	44	50
45dB-MAF	45	45	51
47dB-MA	47	46	52
50dB-MAF	2 x 42dB MAF		
55dB-MAF	2 x 45dB MAF		



GENERAL PURPOSE DOOR

(Non-Acoustic, Non-Fire rated)

Model	Core/ Thickness	FSTC (Estimated)
GP50-H	Hollow/ 50mm	< 20 dB
GP50-S	Solid/ 50mm	22 dB

FIRE DOOR PERFORMANCE

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

Model	Stability	Integrity	Insulation
F60	60 minutes	60 minutes	-
F120/F120A*	120 minutes	120 minutes	30 minutes*



DOOR TYPE

Door Type	Application	Acoustic	Fire-resistance	Acoustic & Fire
BASIC MODEL	Architectural/ Industrial	39dB-MAF/42dB-MAF 44dB-MA / 45dB-MAF 47dB-MA	F60M F120 F120A	39dB-MAF 42dB-MAF 45dB-MAF

DOOR SPECIFICATION

Door Type	Specification	Acoustic	Fire-resistance	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	F60: Hollow Core F120: Hollow Core F120A: Solid Core	Supplied hung in frame
DOOR FRAME a) Mild Steel b) Stainless c) 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-resistance	Acoustic & Fire
PRIMER PAINT	Standard	Standard	Standard	Standard
FINISH PAINT	Available	Available	Available	Available
PLASTIC LAMINATE / VENEER	Available	Available	Available	Available
SPECIAL FINISH	Please consult us for availability			

DIMENSIONS (STRUCTURE WALL OPENING, MM)

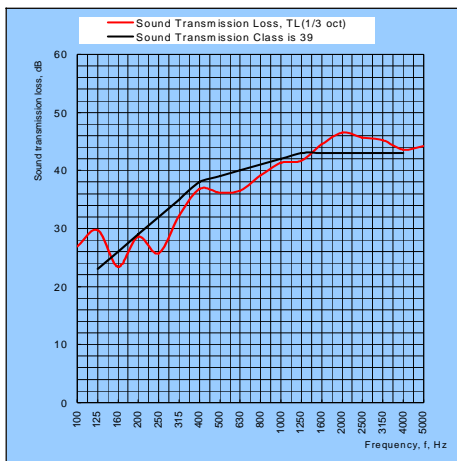
Door Type	39dB / 42dB / 44dB / 45dB / 47dB			
Leave	Single		Double	
	W	H	W	H
Standard Size	930	2160	1830	2130
Fire Door Size (Max.)	1130	2430	1830	2430

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

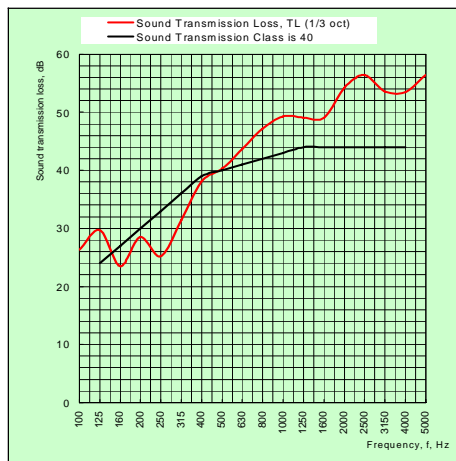
DIMENSIONS (CLEAR DOOR OPENING = STRUCTURE WALL OPENING - VALUES BELOW)

Leave	Single		Double	
Door Type	W,mm	H,mm	W,mm	H,mm
F60M / F120 / F120A*	110	55	110	55
ACOUSTIC DOOR	120	60	120	60

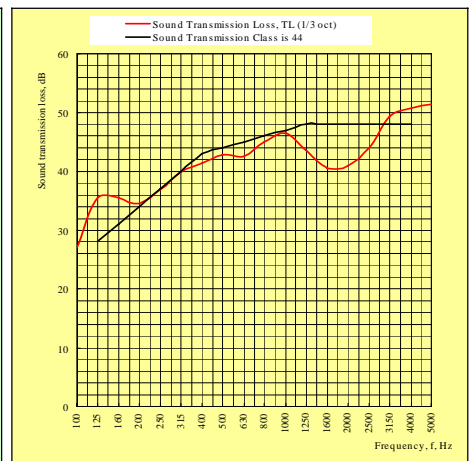
Note: These dimensions may be subject to change.



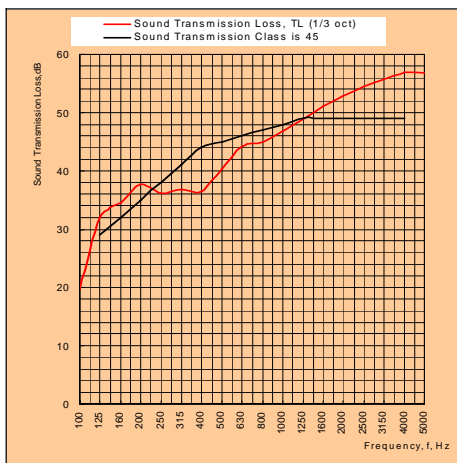
Model: 39dB-MA (STC 39)



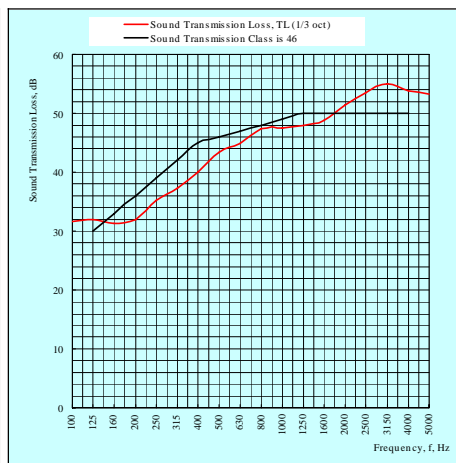
Model: 42dB-MA (STC 40)



Model: 44dB-MA (STC 40)



Model: 45dB-MA (STC 45)



Model: 47dB-MA (STC 46)

ACOUSTIC DOOR FEATURES



Concealed Perimeter Seal Design for Professional Appearance



High Performance Bottom Design for Air Tight Efficiency



Flush Bottom & Automatic Drop Seal Design to ensure Soundproofing Capability



High Quality Acoustic Roller Tightening Door Lock.

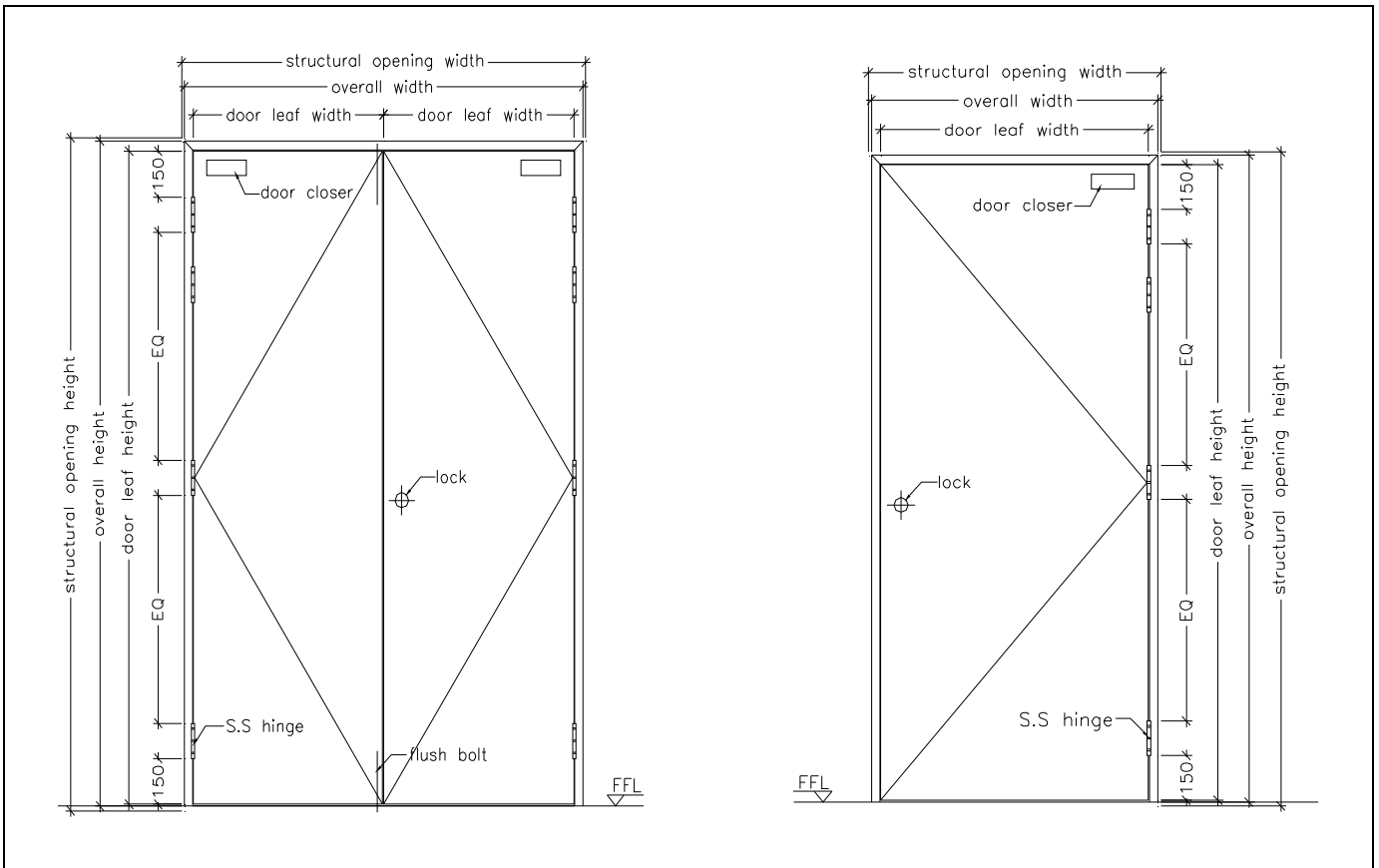


Acoustic Glass Vision Panel Design

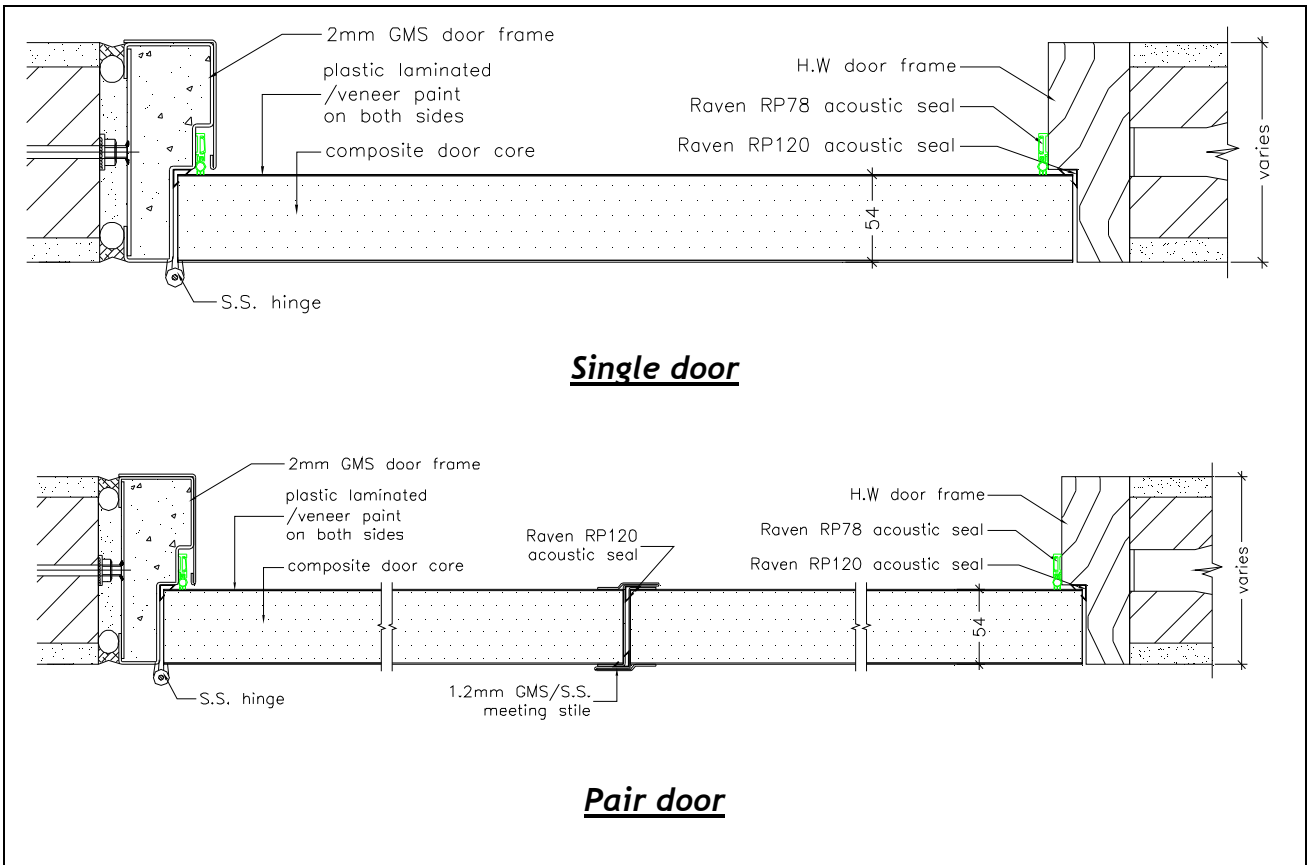


High Sound Insulation Composite Door Core designed for reducing both Low & High frequencies noise sources targeted for noise sensitive applications and environments.

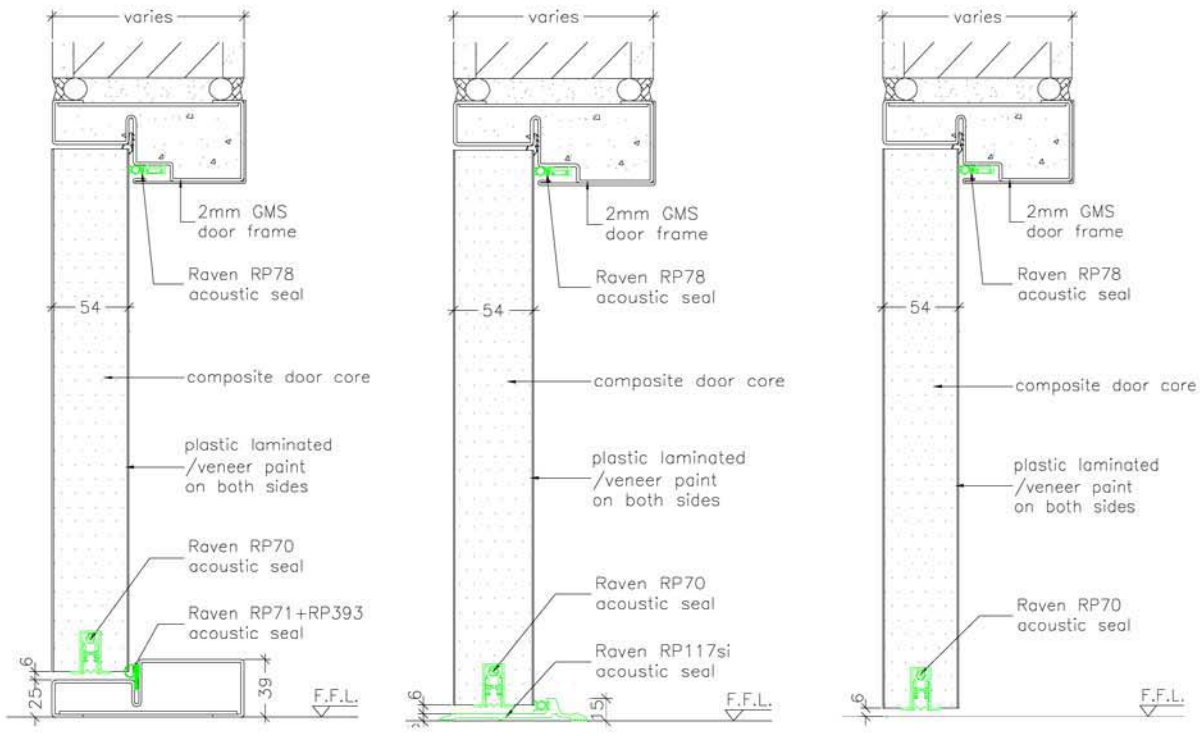
OUTLINE DRAWING OF NCO ACOUSTIC DOOR



OUTLINE DETAILS OF HORIZONTAL SECTION



OUTLINE DETAILS OF TYPICAL VERTICAL SECTIONS



RAISED THRESHOLD

DETACHABLE THRESHOLD

FLUSH BOTTOM



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