

ACOUSTIC STEEL DOOR & FRAME ASSEMBLIES

- AMBICO acoustic steel door and frame assemblies combine outstanding sound transmission loss with the appearance of standard hollow metal products. Our doors are provided complete with acoustic steel frames, perimeter and bottom seals, threshold, and astragal at pairs that are all tested in accordance with ASTM E-90 and E-413 standards
- All testing of acoustic door and frame assemblies is done by independent laboratories to ensure all products comply with the most up-to-date standards
- Fire labeled products have been tested in accordance with NFPA-80 and are certified by Underwriters Laboratories and Warnock Hersey International. Fire labeled products can be supplied in singles or in pairs
- For acoustic performance up to STC 46, lightweight panel engineering combined with level swing seal systems provide outstanding acoustic performance with easy operation; correctly installed openings can comply with ADA (ANSI 117.1)
- For STC 47 and above, cam lift hinges are used providing a compression seal between the door bottom and threshold
- Acoustic steel doors are 1¾" thick and are available from STC 33 to STC 53. They are also available in greater thicknesses from STC 54 to STC 59. Engineered solutions are available for higher ratings
- Acoustic steel door and frame assemblies have been designed to accept readily available commercial grade builders' hardware
- Acoustic steel doors are available with acoustic glazing that is factory pre-installed
- AMBICO offers an unparalleled 5-year warranty



- Stock acoustic steel doors and frames are ready for immediate shipment. AMBICO also offers specific quick ship options for non-stock applications
 - Acoustic steel doors and frames can be used for noise reduction in concert halls, machine rooms, testing facilities, office buildings, schools, confidential meeting rooms (SCIF) and interrogation rooms
 - LEED & VOC compliant
- For details, see performance chart on reverse



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LEED



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STC	FIRE RATING	DOOR THICKNESS	MAXIMUM GLASS AREA	WEIGHT LBS/SQ.FT	HARDWARE		FRAME SEAL	BOTTOM SEAL	THRESHOLD	NOTES	TEST REPORT	TRANSMISSION LOSS dB/FREQUENCY Hz																	
					HINGES	LATCH						100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
39-46	45, 90, 180	1.75"	1200 sq.in	7.9	HW BUTT	CYL/MORT	FIN/BULB	SWEEP/DROP	FLAT	1, 2, 3, 4, 5	RAL TL96-51	26	30	37	40	42	44	44	43	41	41	44	47	49	49	50	49	48	49
47-51	45, 90, 180	1.75"	1200 sq.in	9.5	CAM LIFT Std./HW BUTT Opt.	CYL/MORT	FIN/BULB	FOAM/SWEEP	FLAT	1, 2, 3, 4, 5	RAL TL96-42	31	33	39	42	43	46	47	48	49	50	52	52	53	54	54	52	51	52
52	45, 90, 180	1.75"	300 sq.in	15	CAM LIFT Std./HW BUTT Opt.	CYL/MORT	FIN/BULB	FOAM/SWEEP	FLAT	1, 2, 4, 5	NRC TLA - 19-113	36	42	44	45	45	46	48	49	51	53	55	55	53	52	51	53	57	57
53	45, 90, 180	1.75"	300 sq.in	15.5	CAM LIFT	CYL/MORT	FIN/DBL BULB	SWEEP	FLAT	1, 2, 4, 5, 7	NRC TLA-18-149	34	41	44	45	44	49	50	50	52	52	53	53	54	54	54	55	55	57
54-55	45, 90, 180	2.75"	CONSULT FACTORY	19.1	CAM LIFT	CYL/MORT	BRONZE/TRIPLE FIN/BULB	SWEEP	FLAT	2, 4, 5	NRC A1-007542-4	41	44	47	47	45	47	50	51	50	53	56	57	60	62	63	64	65	65
56	45, 90, 180	2.75"	CONSULT FACTORY	19.1	CAM LIFT	CYL/MORT	BRONZE/TRIPLE FIN/BULB	SWEEP	FLAT	2, 6	NRC A1-007542-3	38	43	45	47	46	46	52	53	53	55	59	59	60	60	60	60	60	61
56-59	NF	1.75" + 1" PANEL	CONSULT FACTORY	22.5	CAM LIFT	CYL/MORT	FOAM RUBBER/DBL BULB	SWEEP	FLAT	2, 5, 7	WEAL TLO5-374	35	42	49	50	53	55	53	55	56	58	60	60	61	61	62	62	63	64

- BUTT HINGES ARE STANDARD UP TO STC 46. CAM LIFT HINGES ARE STANDARD BETWEEN STC 47 & 59 (LEVEL SWING WITH BUTT HINGES ARE OPTIONAL BETWEEN STC 47 & 52), CONTINUOUS HINGE AND PIVOT PREP OPTIONS ARE AVAILABLE.
- CYLINDRICAL, RIM, OR MORTISE LOCK/EXIT DEVICE STANDARD. SURFACE VERTICAL ROD, CDX-09 AND LKM7000 OPTIONS ARE AVAILABLE. CONSULT FACTORY.
- CONCEALED VERTICAL ROD (TOP ROD ONLY) AVAILABLE. CONSULT FACTORY.
- MAXIMUM GLASS AREA VARIES WHEN FIRE RATED, CONSULT FACTORY.
- AVAILABLE IN SINGLES OR PAIRS.
- AVAILABLE IN SINGLES ONLY.
- SPECIAL BACKSET OR TRIM SIZE MAY APPLY.



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- The above chart is a sample set of test results and does not represent all testing data
- STC Wood Doors & Frames to STC 56
- STC Steel Windows to STC 59