

STC PERFORMANCE RATED ACOUSTIC DOORS & WINDOWS MANUFACTURED BY AMBICO

REV. 2011/10/24

Year of test

Frequency

Transmission Loss (dB)

STC	Model	Description	WT LB/FT ²	STC	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
WOOD DOORS																						
36	WDSTC-3699	Wood-SD flat threshold/semi-mort bottom seal	10.2	36	33	34	33	35	35	36	37	36	36	36	35	32	34	38	33	38	40	44
45	WDSTC-4510	Wood-SD flat threshold/mort bottom seal	5.5	45	20	22	36	35	37	42	43	45	46	47	48	50	50	49	48	45	42	42
48	WDSTC-4805	Wood-SD stepped threshold/ mort bottom seal	9.9	48	26	30	37	39	40	42	45	45	45	46	47	48	50	52	51	51	52	53
49	WDSTC-4901	Wood-SD	7.6	49	22	33	37	39	42	44	45	45	46	47	49	49	51	51	51	52	51	49
49	WDSTC-4999	Wood-SD	10.3	49	26	31	38	40	42	45	46	46	48	49	50	50	52	52	53	52	51	52
50	WDSTC-5099	Wood-SD	10.3	50	24	31	38	40	42	44	46	46	48	50	51	50	52	52	54	53	51	52
51	WDSTC-5106	Wood- SD (Non- Fire 2 1/4" thick)	12.7	51	36	39	41	45	45	45	47	47	49	49	50	51	52	53	54	54	55	57
51	WFDSTC-5106	Wood- SD (Fire door 2 1/4" thick)	14.9	51	23	27	38	42	43	48	49	50	52	52	51	52	53	53	53	52	55	57

STEEL DOORS

44	STC 4406	Steel-SD 2 1/4 thick door / Flush full lite	14.4	44	30	30	28	34	41	42	43	45	46	46	46	44	42	43	44	44	47	49	
46	STC 4695	Steel-SD	10.4	46	29	34	37	40	40	40	45	48	49	50	51	50	48	46	49	49	42	36	
46	STC 4696	Steel-SD	7.7	46	26	30	37	40	42	44	44	43	41	41	44	47	49	49	50	49	48	49	
48	STC 4897WN	Steel-WN Cam hinges	15.6	48	38	36	41	41	43	45	47	47	45	46	47	48	49	49	49	49	53	56	58
48	STC 4805	Steel / flat threshold / Cam hinges/	9.3	48	25	30	37	40	42	46	47	48	49	49	50	49	48	49	49	48	47	46	
49	STC 4906	Steel / flat threshold / protruding full lite kit	17.3	49	33	30	34	39	41	43	46	48	50	52	51	50	49	50	50	50	50	51	
50	STC 5005	Same as STC4805 with stepped threshold	9.3	50	25	30	37	39	43	47	49	49	50	50	52	51	51	53	53	51	51	49	
50	STC 5096	Steel-DD	16.1	50	35	38	41	43	43	45	46	46	48	49	51	51	53	43	54	53	52	52	
51	STC 5196	Steel-SD	9.5	51	31	33	39	42	43	46	47	48	49	50	52	52	53	54	54	52	51	52	
51	STC 5194	Steel-SD	16.2	51	29	38	40	41	43	45	47	49	50	50	50	49	51	54	56	57	56	59	
52	STC 5294	Steel-SI	16.2	52	29	38	39	41	43	44	48	49	51	52	53	53	54	54	55	57	57	59	
52	STC 5294	Steel-SD	16.5	52	33	37	39	41	43	44	48	49	51	53	54	53	54	53	54	55	54	57	
52	STC 5295	Steel-SD	14.7	52	37	40	41	43	45	45	48	50	51	52	53	53	54	55	55	52	50	52	
52	STC 5296	Steel-SD	15.0	52	36	38	43	43	44	45	47	48	49	52	53	54	55	55	56	54	55	57	
52	STC 5297WN	Steel-WN	15.6	52	38	35	40	42	44	45	48	50	50	52	53	54	54	55	60	61	61	61	
53	STC 5397	Steel-SD	15.4	53	35	40	42	40	45	46	49	50	50	51	53	54	56	57	59	58	60	61	
54	STC 5497SL	Steel-SL	21.5	54	36	36	41	40	42	45	49	51	53	55	57	58	60	62	64	65	64	63	
55	STC 5501	Steel-SD Cam hinges	21.3	55	35	42	43	44	45	47	49	51	52	54	56	56	57	59	61	62	63	63	
59	STC 5905	Steel- DD Cam hinges	22.3	59	35	42	49	50	53	55	53	55	56	58	60	60	61	61	62	62	63	64	

WINDOWS/GLAZING

39	STC3904	Sealed unit	N/A	39	21	32	20	22	27	34	32	37	39	42	45	45	45	46	49	53	56	56
49	STC4904	No absorption panel	N/A	49	36	38	41	44	47	48	48	50	53	51	54	55	50	45	48	53	58	59
50	STC5099	Absorption panel	N/A	50	29	39	41	39	42	44	45	47	48	49	50	51	53	53	56	58	57	59
56	STC5604	Absorption panel	N/A	56	36	37	40	45	48	50	53	55	56	57	58	59	60	60	59	60	61	60

Where:
 S = Steel DD = Double Doors
 W = Wood SL = Sliding Doors
 SD = Single Door WN = Vision Lite
 SI = Sealed Inop

BASIC USAGE GUIDE

- STC - 35 BEQ
- STC - 40 CLASSROOM
- STC - 45 OFFICE / MUSIC ROOM / SCIF
- STC - 50 MUSIC ROOM / PERFORMING ARTS THEATRE / BROADCAST STUDIO
- STC - 55 SCIF / SECURITY / SPECIFIC APPLICATIONS

FIRE LABELLING GUIDE

- (FIRE LABELLING TO 90 MIN)
- WOOD UP TO STC-40 1 3/4" THICK DOOR
MAX SGL - 4' 0" X 8' 0"
MAX PAIR - 2 / 4' 0" X 8' 0"
 - WOOD FROM STC-41 UP TO STC-51 2 1/4" THICK DOOR
MAX SGL - 3' 6" X 7' 6"
MAX PAIR - 2 / 3' 6" X 7' 6"
 - STEEL UP TO STC-53 1 3/4" THICK DOOR
MAX SGL - 4' 0" X 8' 0"
MAX PAIR - 2 / 4' 0" X 8' 0"