



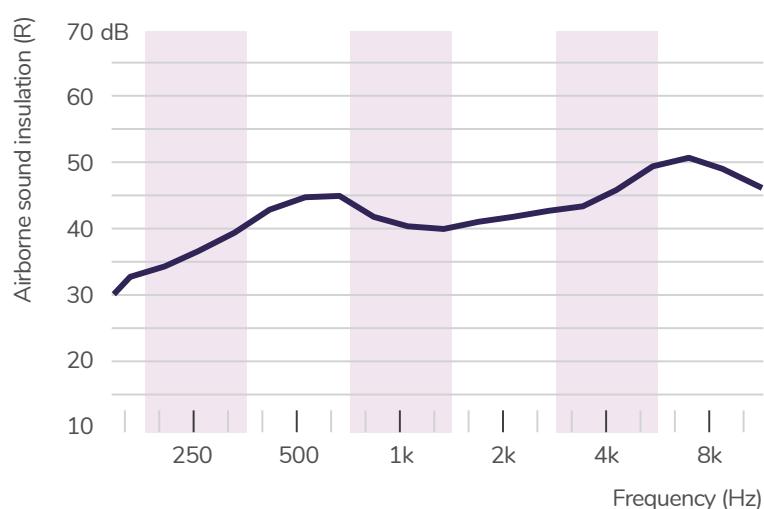
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ACOUSTIC RATED STEEL DOOR A41

Test element: door type A41
 Area, S, of test element: 2.21 m²
 Mass per unit area: 25 kg/m²
 Receiving room volume: 100 m³

Laboratory measurements of sound insulation of the Acoustidor type A41 door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	28.1	
63	13.1	15.4
80	14.4	
100	18.0	
125	24.7	21.8
160	32.7	
200	34.7	
250	36.3	36.4
315	39.7	
400	42.8	
500	44.9	44.1
630	45.0	
800	41.9	
1000	40.2	40.6
1250	40.0	
1600	40.8	
2000	41.7	41.8
2500	43.1	
3150	43.5	
4000	45.6	45.6
5000	49.8	
6300	50.6	
8000	49.1	48.5
10000	46.8	



Sound insulation measurements took place in a laboratory. Specimen door A41, single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: $R_w = 41$ dB
 C -1 dB
 Ctr -5 dB
 STC 43

The A41 door has no fire rating.

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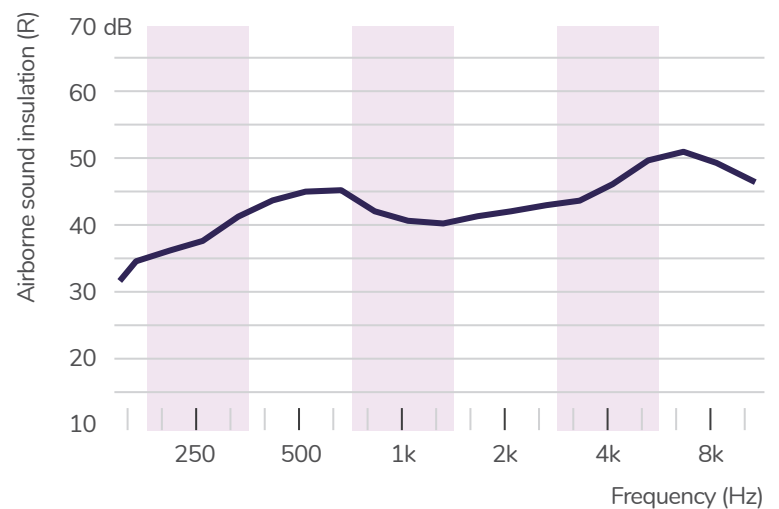
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ACOUSTIC RATED STEEL DOOR A43

Test element: door type A43
 Area, S, of test element: 2.21 m²
 Mass per unit area: 34 kg/m²
 Receiving room volume: 110 m³

Sound insulation of the Acoustidor type A43 door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	30.1	
63	15.1	17.4
80	16.4	
100	20.0	
125	26.7	23.8
160	34.7	
200	35.7	
250	37.3	37.4
315	40.7	
400	43.8	
500	44.9	44.5
630	45	
800	41.9	
1000	41.2	41.3
1250	41	
1600	41.8	
2000	43.7	43.3
2500	45.1	
3150	46.5	
4000	48.6	48.7
5000	53.8	
6300	54.6	
8000	54.1	53.3
10000	51.8	



Sound insulation measurements on A43 door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: $R_w = 43$ dB
 C -1 dB
 Ctr -6 dB
 STC 44

The A43 door is available without fire rating or with fire rated classification EW 30, EI2 30, EI1 30, EW 60.

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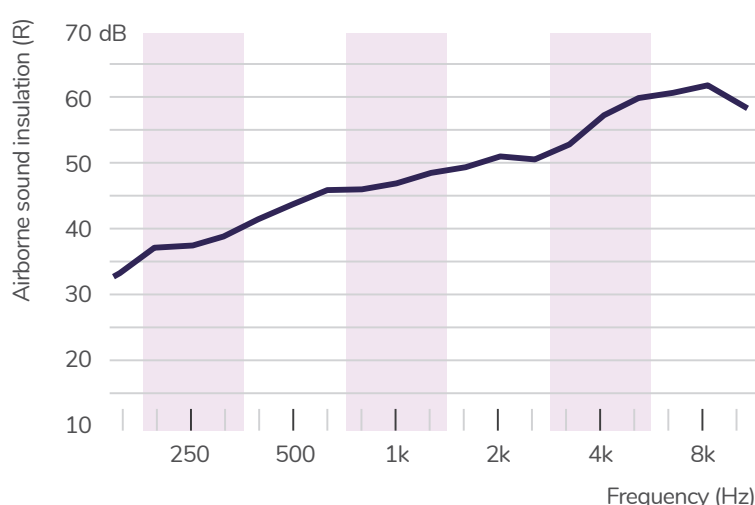
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ACOUSTIC RATED STEEL DOOR A47

Test element: door type A47
 Area, S, of test element: 2.21 m²
 Mass per unit area: 35 kg/m²
 Receiving room volume: 100 m³

Laboratory measurements of sound insulation of the Acoustidor type A47 door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	24.1	
63	14.2	16.7
80	16.4	
100	20.4	
125	30.9	24.6
160	34.1	
200	37.6	
250	37.8	38.2
315	39.5	
400	42.2	
500	44.8	44.2
630	46.8	
800	46.9	
1000	47.5	47.7
1250	49.1	
1600	50.1	
2000	51.7	50.9
2500	51.2	
3150	53.2	
4000	58.1	56.1
5000	60.2	
6300	61.6	
8000	62.6	61.0
10000	59.5	



Sound insulation measurements took place in a laboratory. Specimen door A47, single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: $R_w = 47$ dB
 C -2 dB
 Ctr -8 dB
 STC 47

The A47 door has no fire rating.

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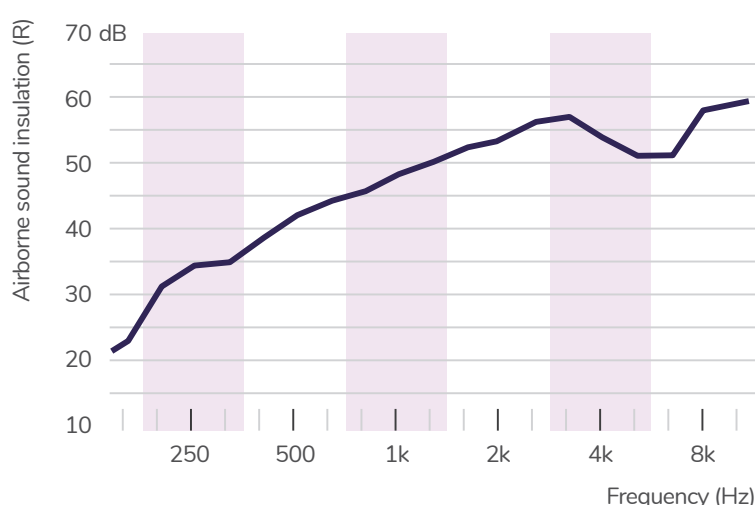
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ACOUSTIC RATED STEEL DOOR A51

Test element: door type A51
 Area, S, of test element: 2.1 m²
 Mass per unit area: 49 kg/m²
 Receiving room volume: 86 m³

Laboratory measurements of sound insulation of the Acoustidor type A51 door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	29.8	
63	18.0	21.3
80	22.6	
100	30.7	
125	34.8	41.3
160	35.1	
200	38.9	
250	42.3	47.6
315	44.8	
400	45.5	
500	48.4	53.8
630	50.1	
800	52.4	
1000	53.9	53.1
1250	55.9	
1600	56.6	
2000	54.7	54.2
2500	50.4	
3150	50.5	
4000	58.3	48.9
5000	59.8	
6300	61.6	
8000	62.6	61.0
10000	59.5	



Sound insulation measurements on A51 door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: Rw = 51 dB
 C -2 dB
 Ctr -6 dB
 STC 51

The A51 door is only available with with fire rated classification EW 30, EI2 30, EI1 30, EW 60, EI2 60, EI1 60, EW 90, EI2 90, EI1 90 or EW 120.

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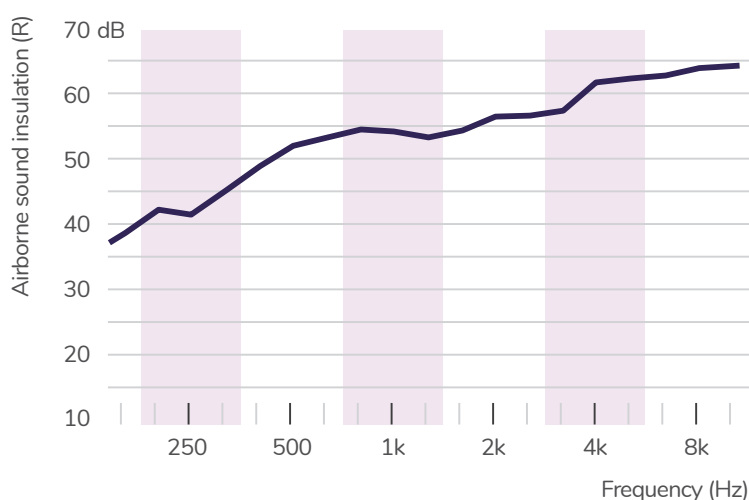
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ACOUSTIC RATED STEEL DOOR A52

Test element: door type A52
 Area, S, of test element: 2.1 m²
 Mass per unit area: 52 kg/m²
 Receiving room volume: 110 m³

Laboratory measurements of sound insulation of the Acoustidor type A52 door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	20,2	
63	14,1	17,1
80	19,8	
100	31,0	
125	35,0	33,8
160	38,5	
200	41,9	
250	41,0	42,3
315	44,9	
400	48,8	
500	51,9	50,8
630	52,9	
800	54,3	
1000	54,0	54,0
1250	53,8	
1600	54,6	
2000	55,8	55,4
2500	56,0	
3150	56,7	
4000	61,1	59,2
5000	61,6	
6300	62,5	
8000	63,9	63,4
10000	64,0	



Sound insulation measurements on A52 door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: R_w = 51 dB
 C -2 dB
 C_{tr} -7 dB
 STC 53

The A52 door is only available with with fire rated classification EW 30, EI2 30, EI1 30, EW 60, EI2 60, EI1 60, EW 90, EI2 90, EI1 90, EW 120 or E 240.

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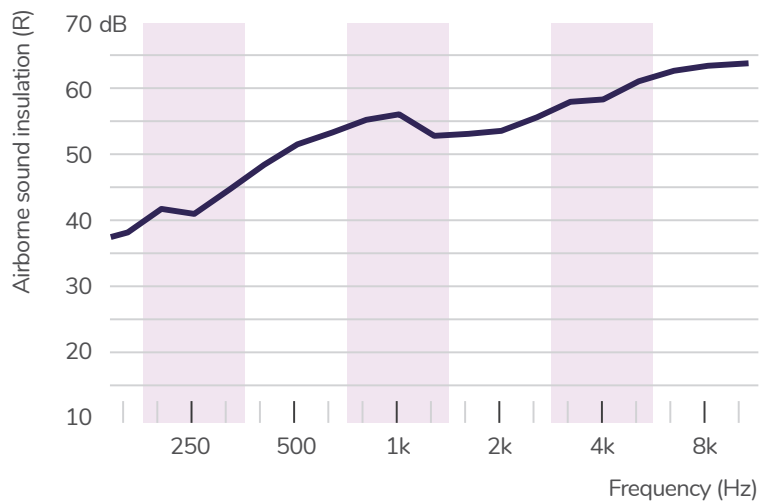
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ACOUSTIC RATED STEEL DOOR A53

Test element: door type A53
 Area, S, of test element: 2.0 m²
 Mass per unit area: 45 kg/m²
 Receiving room volume: 89 m³

Laboratory measurements of sound insulation of the Acoustidor type A53 door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	29.8	
63	14.1	17.7
80	19.8	
100	31.0	
125	37.0	34.2
160	38.5	
200	41.9	
250	41.0	42.3
315	44.9	
400	48.8	
500	51.9	51.0
630	53.9	
800	55.3	
1000	55.8	54.9
1250	53.8	
1600	54.6	
2000	55.8	56.0
2500	58.5	
3150	58.7	
4000	61.1	60.6
5000	63.0	
6300	63.5	
8000	63.9	63.9
10000	64.4	



Sound insulation measurements on A53 door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: $R_w = 53$ dB
 C -2 dB
 Ctr -6 dB
 STC 53

The A53 door has no fire rating.

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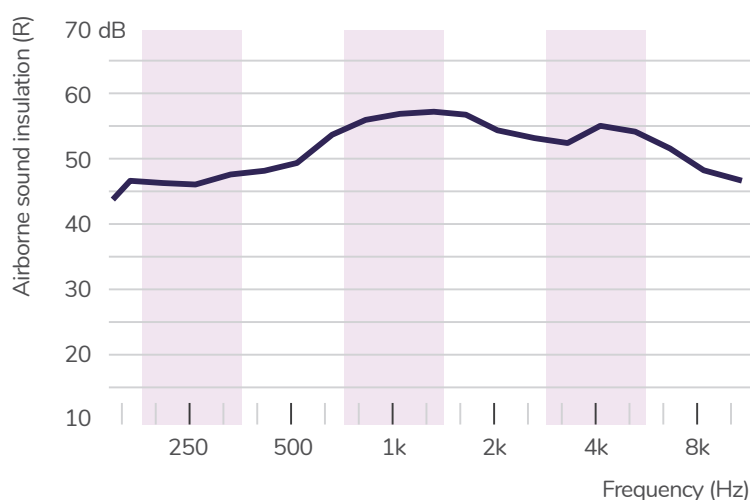
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ACOUSTIC RATED STEEL DOOR A55L

Test element: door type A55L
 Area, S, of test element: 2.0 m²
 Mass per unit area: 49 kg/m²
 Receiving room volume: 89 m³

Laboratory measurements of sound insulation of the Acoustidor type A55L door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	34.3	
63	21.5	25.7
80	31.5	
100	39.1	
125	40.3	41.0
160	46.5	
200	45.9	
250	45.7	46.3
315	47.5	
400	48.2	
500	49.6	50.0
630	53.8	
800	55.6	
1000	56.5	56.3
1250	56.8	
1600	56.1	
2000	54.3	54.6
2500	53.7	
3150	52.5	
4000	55.2	53.9
5000	54.3	
6300	51.7	
8000	48.1	48.5
10000	46.9	



Sound insulation measurements on A55L door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with EN ISO 140-3: Rw = 55 dB
 C -1 dB
 Ctr -3 dB

The A55L door has no fire rating.

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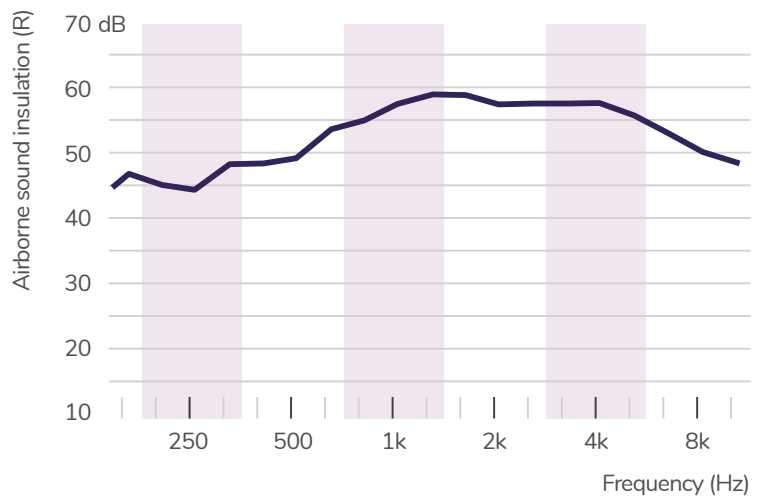
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ACOUSTIC RATED STEEL DOOR A56

Test element: door type A56
 Area, S, of test element: 2.0 m²
 Mass per unit area: 62 kg/m²
 Receiving room volume: 89 m³

Laboratory measurements of sound insulation of the Acoustidor type A56 door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	32.2	
63	20.6	23.9
80	25.3	
100	38.7	
125	41.8	41.2
160	45.9	
200	44.6	
250	43.8	45
315	47.1	
400	47.2	
500	48.4	48.9
630	52.5	
800	54.3	
1000	56.5	56.0
1250	57.9	
1600	57.8	
2000	56.6	57.0
2500	56.8	
3150	56.8	
4000	56.8	56.1
5000	55.0	
6300	52.3	
8000	49.7	49.6
10000	47.9	



Sound insulation measurements on A56 door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: $R_w = 56$ dB

The A56 door is available without fire rating or with fire rated classification EW 30, EI2 30, EI1 30, EW 60, EI2 60, EI1 60, EW 90, EI2 90, EI1 90 or EW 120 (and E 240 on demand).

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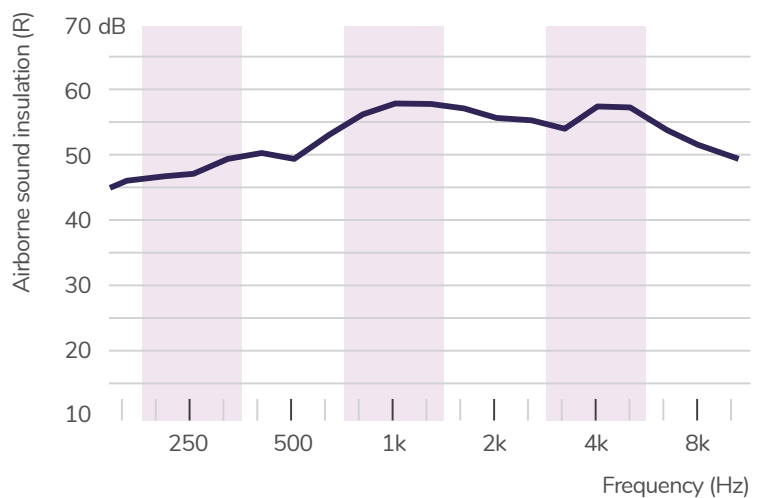
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ACOUSTIC RATED STEEL DOOR A56L

Test element: door type A56L
 Area, S, of test element: 2.0 m²
 Mass per unit area: 68 kg/m²
 Receiving room volume: 89 m³

Laboratory measurements of sound insulation of the Acoustidor type A56L door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	33.1	
63	32.6	34.2
80	39.5	
100	41.0	
125	43.8	43.0
160	45.3	
200	46.2	
250	46.7	47.1
315	48.8	
400	49.6	
500	48.8	50.0
630	52.5	
800	55.4	
1000	57.1	56.4
1250	57.0	
1600	56.5	
2000	54.9	55.4
2500	54.8	
3150	53.7	
4000	56.8	55.4
5000	56.4	
6300	53.5	
8000	50.8	50.9
10000	49.4	



Sound insulation measurements on A56L door took place in a laboratory. Single leaf, size 950 x 2100 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1: R_w = 56 dB
 C -1 dB
 C_{tr} -2 dB

The A56L door has no fire rating.

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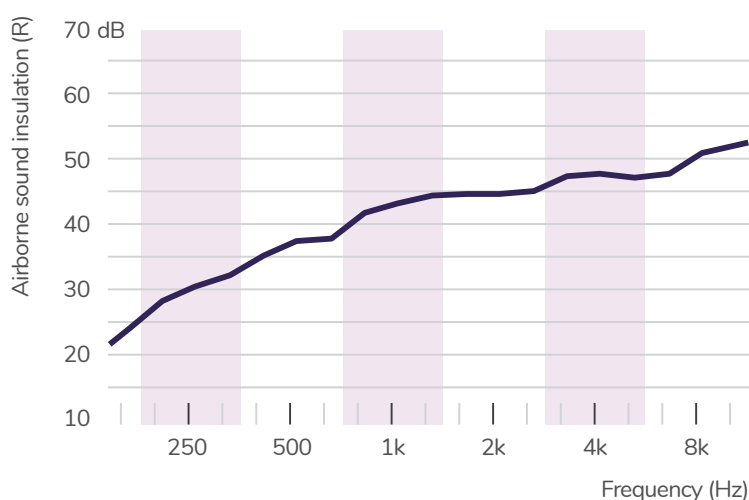
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ACOUSTIC RATED STEEL DOOR AFT

Test element: door type AFT
 Area, S, of test element: 2.4 m²
 Mass per unit area: 68 kg/m²
 Receiving room volume: 211 m³

Laboratory measurements of sound insulation of the Acoustidor type AFT door.

Frequency (Hz)	R 1/3 oct (dB)	R 1/1 oct (dB)
50	29.8	
63	23.4	26.2
80	27.8	
100	32.4	
125	34.7	34.1
160	36.2	
200	39.0	
250	41.3	40.5
315	41.9	
400	45.4	
500	47.3	46.9
630	48.4	
800	48.5	
1000	48.5	48.7
1250	49.0	
1600	51.3	
2000	51.7	51.2
2500	50.7	
3150	51.9	
4000	55.0	54.0
5000	56.4	



Sound insulation measurements on AFT door took place in a laboratory. Single leaf, size 1045 x 2235 mm, with threshold H=48 mm, 2 pcs compression type latches, no vision panel. Different leaf configuration, door size, threshold, locks, vision panels, etc. will affect sound insulation values.

Rating in accordance with ISO 717-1:1996: Rw = 49 dB
 C -1 dB
 Ctr -4 dB
 STC 49

The AFT door is only available with with fire rated classification EW 30, EI2 30, EI1 30, EW 60, EI2 60, EI1 60, EW 90, EI2 90, EI1 90 or EW 120.

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