

Calc to Nags Head

Construction	Area (m ²)	SRI								dBA
		63	125	250	500	1000	2000	4000	8000	
Internal Noise Level in Bar		90	95	90	90	90	90	90	90	97.03302
Door Closed SRI		21	30	30	38	41	45	50	52	
Door Open SRI		18	20	20	20	20	20	20	20	
Distance to Receptor (m)	80									
A	3									
B	37									
a/pi		0.95493	0.95493	0.95493	0.95493	0.95493	0.95493	0.95493	0.95493	
b/pi		11.77747	11.77747	11.77747	11.77747	11.77747	11.77747	11.77747	11.77747	
a/pi to b/pi		10.71052	10.71052	10.71052	10.71052	10.71052	10.71052	10.71052	10.71052	
b/pi to r		16.64076	16.64076	16.64076	16.64076	16.64076	16.64076	16.64076	16.64076	
Total Distance Loss		27.35128	27.35128	27.35128	27.35128	27.35128	27.35128	27.35128	27.35128	
Screening		6.428574	7.562599	9.327392	11.70636	14.50204	17.47055	20	25	
Level at Receptor (Doors Closed)		35	30	23	13	7	0	-7	-14	18.90503
Level at Receptor (Doors Open)		39	40	33	31	28	25	22	17	33.869
# door Openings (5 secs each)	70									
Leq Doors Closed	550	33.08135	27.71392	21.10309	11.00911	5.26629	-2.44125	-9.28688	-16.1101	16.76623
Leq Doors Open	350	34.45052	36.09109	29.37426	26.64473	23.80842	20.8183	18.28155	13.28069	29.76725
TOTAL Level	900.0	36.8	36.7	30.0	26.8	23.9	20.8	18.3	13.3	30.0

Calc to Radisson Hotel

Construction	Area (m ²)	SRI							
		63	125	250	500	1000	2000	4000	8000
Internal Noise Level in Bar		90	95	90	90	90	90	90	90
Door Closed SRI		21	30	30	38	41	45	50	52
Door Open SRI		18	20	20	20	20	20	20	20

dBA

97.03302

Distance to Receptor (m) 80
 A 3
 B 37

a/pi	0.95493	0.95493	0.95493	0.95493	0.95493	0.95493	0.95493	0.95493	0.95493
b/pi	11.77747	11.77747	11.77747	11.77747	11.77747	11.77747	11.77747	11.77747	11.77747
a/pi to b/pi	10.71052	10.71052	10.71052	10.71052	10.71052	10.71052	10.71052	10.71052	10.71052
b/pi to r	16.64076	16.64076	16.64076	16.64076	16.64076	16.64076	16.64076	16.64076	16.64076
Total Distance Loss	27.35128	27.35128	27.35128	27.35128	27.35128	27.35128	27.35128	27.35128	27.35128

Screening	5.490434	5.937468	6.748554	8.094478	10.08151	12.63255	15.51132	18.5014
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Level at Receptor (Doors Closed)	36	31	26	17	12	5	-3	-7	21.44958
Level at Receptor (Doors Open)	39	42	36	34	32	30	27	24	37.79312

door Openings (5 secs each) 70

Leq Doors Closed	550	34.01949	29.33905	23.68192	14.62099	9.686821	2.396747	-4.7982	-9.6115	19.31078
Leq Doors Open	350	35.38866	37.71622	31.9531	30.25661	28.22895	25.6563	22.77023	19.77929	33.69138
TOTAL Level	900	37.76811	38.30543	32.5559	30.37366	28.28928	25.67676	22.77782	19.78428	33.84695

Calc to Great Northern Tower

Construction	Area (m ²)	SRI							
		63	125	250	500	1000	2000	4000	8000
Internal Noise Level in Bar		90	95	90	90	90	90	90	90
Door Closed SRI		21	30	30	38	41	45	50	52
Door Open SRI		18	20	20	20	20	20	20	20

dBA

97.03302

Distance to Receptor (m) 100
A 3
B 37

a/pi 0.95493 0.95493 0.95493 0.95493 0.95493 0.95493 0.95493 0.95493 0.95493
b/pi 11.77747 11.77747 11.77747 11.77747 11.77747 11.77747 11.77747 11.77747 11.77747

a/pi to b/pi 10.71052 10.71052 10.71052 10.71052 10.71052 10.71052 10.71052 10.71052 10.71052
b/pi to r 18.57896 18.57896 18.57896 18.57896 18.57896 18.57896 18.57896 18.57896 18.57896
Total Distance Loss 29.28948 29.28948 29.28948 29.28948 29.28948 29.28948 29.28948 29.28948 29.28948
air absorption 0 1 2 3 3 3 3 3 3

Screening 5.01429 5.02832 5.056512 5.112513 5.223015 5.43824 5.847187 6.590087

Level at Receptor (Doors Closed) 35 29 24 15 12 7 2 0 19.93712
Level at Receptor (Doors Open) 38 40 34 32 32 32 32 31 39.00483

door Openings (5 secs each) 70

Leq Doors Closed 550 32.55743 27.31 21.43577 12.66476 9.607112 4.652859 -0.07227 -2.63839 17.79832
Leq Doors Open 350 33.9266 35.68716 29.70694 28.30038 28.14924 27.91241 27.49616 26.7524 34.90308
TOTAL Level 900 36.30605 36.27638 30.30974 28.41742 28.20957 27.93287 27.50376 26.7574 34.98686

Calc to 47 Peter Street

Construction	Area (m ²)	SRI							
		63	125	250	500	1000	2000	4000	8000
Internal Noise Level in Bar		90	95	90	90	90	90	90	90
Door Closed SRI		21	30	30	38	41	45	50	52
Door Open SRI		18	20	20	20	20	20	20	20

dBA

97.03302

Distance to Receptor (m) 45
A 3
B 37

a/pi 0.95493 0.95493 0.95493 0.95493 0.95493 0.95493 0.95493 0.95493
b/pi 11.77747 11.77747 11.77747 11.77747 11.77747 11.77747 11.77747 11.77747

a/pi to b/pi 10.71052 10.71052 10.71052 10.71052 10.71052 10.71052 10.71052 10.71052
b/pi to r 11.64321 11.64321 11.64321 11.64321 11.64321 11.64321 11.64321 11.64321
Total Distance Loss 22.35373 22.35373 22.35373 22.35373 22.35373 22.35373 22.35373 22.35373

Screening 8.556321 10.68046 13.33928 16.26198 19.26116 20 20 23

Level at Receptor (Doors Closed) 38 32 24 14 8 2 -2 -7 20.35093
Level at Receptor (Doors Open) 41 42 34 31 28 27 27 24 35.70631

door Openings (5 secs each) 70

Leq Doors Closed 550 35.95115 29.59361 22.08874 11.45104 5.504721 0.026848 -4.28933 -9.11255 18.21214
Leq Doors Open 350 37.32032 37.97077 30.35992 27.08666 24.04685 23.2864 23.2791 20.27824 31.60457
TOTAL Level 900 39.69977 38.55999 30.96272 27.20371 24.10718 23.30686 23.28669 20.28323 31.79901