

Table 5 (c) RT for all classroom using theoretical calculation (Sabine Theory)

No	Classroom	Volume, m ³	Theoretical Calculation (RT)				
			250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
1	C1 ¹	265.81	0.84	1.07	0.68	0.49	0.38
2	C2 ²	491.35	1.32	2.03	2.04	2.04	1.68
3	C3 ²	491.35	1.33	2.06	2.07	2.07	1.70
4	C4 ³	557.7	1.29	1.95	2.15	2.09	1.89
5	C5 ³	544.15	1.21	1.80	2.00	1.93	1.75
6	C6 ³	268.49	1.04	1.57	1.75	1.69	1.53
7	C7 ³	267.64	0.99	1.28	1.21	1.10	1.03
8	C8 ⁴	239.76	1.29	2.34	2.43	2.12	1.79
9	C9 ³	234.40	1.25	2.15	2.30	2.30	2.03
10	C10 ³	295.70	1.30	2.19	2.34	2.36	2.11
11	C11 ³	231.07	1.31	1.88	1.88	1.63	1.51
12	C12 ³	227.31	1.29	1.85	1.86	1.61	1.49
13	C13 ³	218.70	1.34	1.95	1.98	1.94	1.71
14	C14 ³	201.82	1.18	1.98	2.07	2.06	1.82
15	C15 ³	211.33	1.19	1.99	2.09	2.08	1.84
16	C16 ³	211.73	1.19	2.01	2.12	2.11	1.86
17	C17 ³	236.03	1.26	2.05	2.09	2.06	1.81
18	C18 ³	238.63	1.30	2.30	2.51	2.54	2.25
19	C19 ³	277.44	1.25	2.14	2.32	2.35	2.08
20	C20 ²	222.75	1.08	1.77	1.94	1.91	1.56
21	C21 ²	225.37	0.99	1.64	1.93	2.00	1.67
22	C22 ²	235.93	1.04	1.77	2.11	2.21	1.83
23	C23 ⁴	215.80	1.31	2.32	2.19	1.81	1.48
24	C24 ⁴	214.49	1.29	2.30	2.16	1.79	1.46
25	C25 ²	486.12	1.58	2.53	2.47	2.39	1.97
26	C26 ² Smart Classroom	813.07	1.74	2.78	2.63	2.38	1.98
27	C27 ²	382.00	1.35	2.10	2.04	1.98	1.64
28	C28 ² Seminar Room B	737.30	1.83	2.63	2.71	2.15	1.93
29	C29 ² seminar Room C	377.64	1.57	2.13	2.12	1.55	1.41

Notes*

X¹ = Thin carpetX² = Vinyl above the concreteX³ = Cement renderX⁴ = Tile above the concrete