

ANNEX 3

Thermal Comfort Analysis.

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Kitchen bar – viewer in the middle and standing

tab	F*	A	B	C	D	E
fig. 4a	0.120	1.24186	0.16730	0.61648	0.08165	0.05128
fig. 4b	0.116	1.59512	0.12788	1.22643	0.04621	0.04434

Surface

north	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	τ	γ
	2.66	3.4	3.41	0.04305	9.044	0.279	20	1.24186	0.68017
	2.66	1	3.41	0.01960	2.66	0.279	20	1.24186	0.68017
	2.66	3.4	3.41	0.04305	9.044	0.279	20	1.24186	0.68017
	2.66	1	3.41	0.01960	2.66	0.279	20	1.24186	0.68017
				2.50604					
east	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	τ	γ
	3.41	3.4	2.66	0.05641	11.594	0.299	19.178	1.45633105	0.78658
	3.41	1	2.66	0.02879	3.41	0.299	19.178	1.45633105	0.71291
	3.41	3.4	2.66	0.05641	11.594	0.299	19.178	1.45633105	0.78658
	3.41	1	2.66	0.02879	3.41	0.299	19.178	1.45633105	0.71291
				3.26763					
south	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	τ	γ
	2.66	3.4	3.41	0.03856	8.144	0.498	20	1.37236381	0.73789
	2.66	1	3.41	0.01822	1.91	0.498	20	1.37236381	0.68043
	2.66	3.4	3.41	0.03856	9.044	0.498	20	1.37236381	0.73789
	2.66	1	3.41	0.01822	2.66	0.498	20	1.37236381	0.68043
				2.27097					
door	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	τ	γ
	0.75	1.2	3.41	0.00787	0.9	1.4	20	1.27865619	0.65649
	0.75	1	3.41	0.00687	0.75	1.4	20	1.27865619	0.65170
				0.29481					

west	a	b	c	Fp,i	A(m ²)	U	T _{ext}	τ	γ
	3.4	3.4	2.66	0.05633	10.66	0.498	20	1.45570211	0.78639
	3.4	1	2.66	0.02875	2.65	0.498	20	1.45570211	0.71272
	3.4	3.4	2.66	0.05633	11.56	0.498	20	1.45570211	0.78639
	3.4	1	2.66	0.02875	3.4	0.498	20	1.45570211	0.71272
				3.40288				τ	γ
door	0.75	1.2	2.66	0.01158	0.9	1.4	20	1.28903105	0.66777
	0.75	1	2.66	0.01022	0.75	1.4	20	1.28903105	0.66163
				0.43596					
ceiling	a	b	c	Fp,i	A(m ²)	U	T _{ext}	τ	γ
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
				1.78196					
west	a	b	c	Fp,i	A(m ²)	U	T _{ext}	τ	γ
	3.4	3.4	2.66	0.05633	10.66	0.498	20	1.45570211	0.78639
	3.4	1	2.66	0.02875	2.65	0.498	20	1.45570211	0.71272
	3.4	3.4	2.66	0.05633	11.56	0.498	20	1.45570211	0.78639
	3.4	1	2.66	0.02875	3.4	0.498	20	1.45570211	0.71272
				3.40288				τ	γ
door	0.75	1.2	2.66	0.01158	0.9	1.4	20	1.28903105	0.66777
	0.75	1	2.66	0.01022	0.75	1.4	20	1.28903105	0.66163
				0.43596					
ceiling	a	b	c	Fp,i	A(m ²)	U	T _{ext}	τ	γ
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
	2.66	3.41	3.4	0.02297	9.0706	0.22	19.395	1.69516729	1.30747
				1.78196					
slab	a	b	c	Fp,i	A(m ²)	U	T _{ext}	τ	γ
	2.66	3.41	1	0.07771	9.0706	0.287	19.211	1.9352808	1.50195
	2.66	3.41	1	0.07771	9.0706	0.287	19.211	1.9352808	1.50195
	2.66	3.41	1	0.07771	9.0706	0.287	19.211	1.9352808	1.50195
	2.66	3.41	1	0.07771	9.0706	0.287	19.211	1.9352808	1.50195
				5.97115					

Results

MRT= 19.93
T op= 19.97 >19 OK!!

Bar – viewer in the middle

tab	F*	A	B	C	D	E
fig. 4a	0.120	1.24186	0.16730	0.61648	0.08165	0.05128
fig. 4b	0.116	1.59512	0.12788	1.22643	0.04621	0.04434

Surfaces

north	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	1.46	3.4	6.13	0.01219	4.064	0.498	20	1.24186	0.63593
	1.46	1	6.13	0.00474	0.71	0.498	20	1.24186	0.63593
	5.4	3.4	6.13	0.03373	17.16	0.498	20	1.24186	0.68841
	5.4	1	6.13	0.01286	4.4	0.498	20	1.24186	0.68841
				1.27031				t	g
door 1	0.75	1.2	6.13	0.00293	0.9	1.4	20	1.262329	0.63874
	0.75	1	6.13	0.00251	0.75	1.4	20	1.262329	0.63607
door2	1	1.2	6.13	0.00381	1.2	1.4	20	1.26915201	0.64083
	1	1	6.13	0.00337	1	1.4	20	1.24186	0.62980
				0.25229					

east	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	6.13	3.4	5.4	0.03809	20.842	0.299	19.178	1.43177648	0.72610
	6.13	1	5.4	0.01547	6.13	0.299	19.178	1.43177648	0.68981
	6.13	3.4	5.4	0.03809	20.842	0.299	19.178	1.43177648	0.72610
	6.13	1	5.4	0.01547	6.13	0.299	19.178	1.43177648	0.68981
				2.05429					

south	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	5.4	3.4	6.13	0.03064	2.36	0.296	19.186	1.38923684	0.70694
	5.4	1	6.13	0.01210	0.4	0.296	19.186	1.38923684	0.67497
	1.46	3.4	6.13	0.01141	1.764	0.296	19.186	1.28170633	0.67398
	1.46	1	6.13	0.00457	0.46	0.296	19.186	1.28170633	0.64201
				1.12650				t	g
Window	5	3.2	6.13	0.02815	16	2	14.499	1.37832003	0.70093
	5	1	6.13	0.01156	5	2	14.499	1.37832003	0.67163
	1	3.2	6.13	0.00785	3.2	2	14.499	1.26915201	0.66747
	1	1	6.13	0.00326	1	2	14.499	1.26915201	0.63817
				0.73692					

south	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	5.4	3.4	6.13	0.03064	2.36	0.296	19.186	1.38923684	0.70694
	5.4	1	6.13	0.01210	0.4	0.296	19.186	1.38923684	0.67497
	1.46	3.4	6.13	0.01141	1.764	0.296	19.186	1.28170633	0.67398
	1.46	1	6.13	0.00457	0.46	0.296	19.186	1.28170633	0.64201
				1.12650				t	g
Window	5	3.2	6.13	0.02815	16	2	14.499	1.37832003	0.70093
	5	1	6.13	0.01156	5	2	14.499	1.37832003	0.67163
	1	3.2	6.13	0.00785	3.2	2	14.499	1.26915201	0.66747
	1	1	6.13	0.00326	1	2	14.499	1.26915201	0.63817
				0.73692					

west	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.13	3.2	1.46	0.09401	19.616	0.553	20	1.94429082	1.01074
	6.13	1	1.46	0.05708	6.13	0.553	20	1.94429082	0.88771
	6.13	3.2	1.46	0.09401	19.616	0.553	20	1.94429082	1.01074
	6.13	1	1.46	0.05708	6.13	0.553	20	1.94429082	0.88771
				6.04380					
ceiling	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	5.4	6.13	3.4	0.04961	33.102	0.22	19.395	1.79822353	1.38017
	5.4	6.13	3.4	0.04961	33.102	0.22	19.395	1.79822353	1.38017
	1.46	6.13	3.4	0.01938	8.9498	0.22	19.395	1.65003318	1.32878
	1.46	6.13	3.4	0.01938	8.9498	0.22	19.395	1.65003318	1.32878
				2.67633					
slab	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	5.4	6.13	1	0.10192	33.102	0.287	19.211	2.285672	1.74913
	5.4	6.13	1	0.10192	33.102	0.287	19.211	2.285672	1.74913
	1.46	6.13	1	0.06356	8.9498	0.287	19.211	1.7818248	1.57443
	1.46	6.13	1	0.06356	8.9498	0.287	19.211	1.7818248	1.57443
				6.35770					

Results

MRT=	<u>20.52</u>	
T _{op} =	20.26 > 19	OK!!

Restaurant – viewer in the middle, sitting

tab	F*	A	B	C	D	E
fig. 3a	0.118	1.21590	0.16890	0.71739	0.08733	0.05217
fig. 3b	0.116	1.39569	0.01302	0.95093	0.07967	0.05458

Surfaces

north	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.85	3.8	6.7	0.03388	23.87	1.022	20	1.2159	0.80668
	6.85	0.6	6.7	0.00705	3.03	1.022	20	1.2159	0.80668
	6.85	3.8	6.7	0.03388	22.43	0.403	20	1.2159	0.80668
	6.85	0.6	6.7	0.00705	4.11	0.403	20	1.2159	0.80668
				1.63733				t	g
door 1	1.8	1.2	6.13	0.00561	2.16	1.4	20	1.26549543	0.74980
	1.8	0.6	6.13	0.00302	1.08	1.4	20	1.26549543	0.74126
window	2	1.8	6.13	0.00856	3.6	1.4	20	1.27100604	0.76005
	2	0	6.13	*	0	1.4	20	*	*
				0.34397					

east	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.7	3.8	6.85	0.02952	25.46	0.553	20	1.38110146	0.81686
	6.7	0.6	6.85	0.00639	4.02	0.553	20	1.38110146	0.77607
	6.7	3.8	6.85	0.02952	25.46	0.553	20	1.38110146	0.81686
	6.7	0.6	6.85	0.00639	4.02	0.553	20	1.38110146	0.77607
				1.43636					

south	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.85	3.8	6.7	0.03069	7.03	0.296	19.186	1.38858134	0.82026
	6.85	0.6	6.7	0.00668	1.11	0.296	19.186	1.38858134	0.77855
	6.85	3.8	6.7	0.03069	20.33	0.296	19.186	1.38858134	0.82026
	6.85	0.6	6.7	0.00668	3.21	0.296	19.186	1.38858134	0.77855
				1.43413				t	g
Window	5	3.8	6.13	0.02847	19	2	14.499	1.35366509	0.81408
	5	0.6	6.13	0.00639	3	2	14.499	1.35366509	0.76849
	1.5	3.8	6.13	0.01140	5.7	2	14.499	1.25722953	0.78429
	1.5	0.6	6.13	0.00259	0.9	2	14.499	1.25722953	0.73870
				0.70823					

west	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.7	3.8	6.85	0.02952	25.46	2	14.499	1.38110146	0.81686
	6.7	0.6	6.85	0.00639	4.02	2	14.499	1.38110146	0.77607
	6.7	3.8	6.85	0.02952	25.46	1.022	20	1.38110146	0.81686
	6.7	0.6	6.85	0.00639	4.02	1.022	20	1.38110146	0.77607
				1.23884					

ceiling	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.85	6.7	3.8	0.06447	45.895	0.22	19.395	1.41916026	1.18979
	6.85	6.7	3.8	0.06447	45.895	0.22	19.395	1.41916026	1.18979
	6.85	6.7	3.8	0.06447	45.895	0.22	19.395	1.41916026	1.18979
	6.85	6.7	3.8	0.06447	45.895	0.22	19.395	1.41916026	1.18979
				5.00193					
slab	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.85	6.7	0.6	0.11468	45.895	0.287	19.211	1.544335	2.46370
	6.85	6.7	0.6	0.11468	45.895	0.287	19.211	1.544335	2.46370
	6.85	6.7	0.6	0.11468	45.895	0.287	19.211	1.544335	2.46370
	6.85	6.7	0.6	0.11468	45.895	0.287	19.211	1.544335	2.46370
				8.81246					

Results

MRT=	<u>20.61</u>		
T _{op} =	20.31	>19	OK!!

Gallery – viewer 1.6 meters form corner, standing

tab	F*	A	B	C	D	E
fig. 4a	0.120	1.24186	0.16730	0.61648	0.08165	0.05128
fig. 4b	0.116	1.59512	0.12788	1.22643	0.04621	0.04434

Surfaces

north	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	5.25	3.4	1.6	0.10137	16.95	0.498	20	1.24186	0.88439
	5.25	1	1.6	0.05648	4.5	0.498	20	1.24186	0.88439
	1.6	3.4	1.6	0.06320	5.44	0.498	20	1.24186	0.69813
	1.6	1	1.6	0.03925	1.6	0.498	20	1.24186	0.69813
				5.20607				t	g
door 1	0.75	1.2	6.13	0.00293	0.9	1.4	20	1.262329	0.63874
	0.75	1	6.13	0.00251	0.75	1.4	20	1.262329	0.63607
				0.10867					

east	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	1.6	3.4	1.6	0.05610	5.44	0.553	20	1.40916	0.84127
	1.6	1	1.6	0.03542	1.6	0.553	20	1.40916	0.71879
	12.8	3.4	1.6	0.09509	43.52	0.553	20	2.58026	1.20023
	12.8	1	1.6	0.05043	12.8	0.553	20	2.58026	1.07775
				4.74081					

south	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	1.6	3.4	12.8	0.00382	0.85	0.296	19.186	1.2627725	0.64458
	1.6	1	12.8	0.00132	0.25	0.296	19.186	1.2627725	0.62927
	5.25	3.4	12.8	0.01070	0.85	0.296	19.186	1.31047914	0.65920
	5.25	1	12.8	0.00368	0.25	0.296	19.186	1.31047914	0.64389
				0.37451				t	g
Window	1.35	3.4	6.13	0.01066	4.59	2	14.499	1.27870421	0.67306
	1.35	1	6.13	0.00427	1.35	2	14.499	1.27870421	0.64109
	5	3.4	6.13	0.02923	17	2	14.499	1.37832003	0.70359
	5	1	6.13	0.01156	5	2	14.499	1.37832003	0.67163
				0.80781					

west	a	b	c	Fp,i	A(m ²)	U	T _{s,i}	t	g
	12.8	3.4	5.25	0.05164	43.52	0.553	20	1.64975333	0.79438
	12.8	1	5.25	0.02060	12.8	0.553	20	1.64975333	0.75706
	1.6	3.4	5.25	0.01541	5.44	0.553	20	1.29284667	0.68499
	1.6	3.4	5.25	0.01541	5.44	0.553	20	1.29284667	0.68499
				2.06119					

ceiling	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	1.6	12.8	3.4	0.02667	20.48	0.22	19.395	1.65529882	1.42126
	1.6	1.6	3.4	0.00809	2.56	0.22	19.395	1.65529882	1.26904
	5.25	12.8	3.4	0.06224	67.2	0.22	19.395	1.79258176	1.46886
	5.25	1.6	3.4	0.01888	8.4	0.22	19.395	1.79258176	1.31664
				2.24766					
slab	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	1.6	12.8	1	0.06824	20.48	0.287	19.211	1.799728	1.88886
	1.6	1.6	1	0.04705	2.56	0.287	19.211	1.799728	1.37131
	5.25	12.8	1	0.10436	67.2	0.287	19.211	2.26649	2.05070
	5.25	1.6	1	0.06773	8.4	0.287	19.211	2.26649	1.53315
				5.52066					

Results

MRT=	<u>21.07</u>	
T _{op} =	20.53 > 19	OK!!

Theater – viewer in the middle, 6.7 m. from stage

tab	F*	A	B	C	D	E
fig. 3a	0.118	1.21590	0.16890	0.71739	0.08733	0.05217
fig. 3b	0.116	1.39569	0.01302	0.95093	0.07967	0.05458

Surfaces

north	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	6.7	5.4	7.5	0.03657	31.68	1.022	20	1.2159	0.79540
	6.7	0.6	7.5	0.00588	3.12	1.022	20	1.2159	0.79540
	23.2	5.4	7.5	0.05629	111.78	0.403	18.892	1.2159	0.98753
	23.2	0.6	7.5	0.00846	11.22	0.403	18.892	1.2159	0.98753
				2.07201				t	g
door 1	1.5	3	6.13	0.00979	4.5	1.4	20	1.25722953	0.77289
	1.5	0.6	6.13	0.00259	0.9	1.4	20	1.25722953	0.73870
door 2 3 4	4.5	3	6.13	0.02281	13.5	1.4	11.92	1.33988858	0.79843
	4.5	0.6	6.13	0.00598	2.7	1.4	11.92	1.33988858	0.76424
				0.51949					

east	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	7.49	5.4	23.2	0.00703	40.446	0.297	19.673	1.27042849	0.75456
	7.49	0.6	23.2	0.00091	4.494	0.297	19.673	1.27042849	0.73649
	7.49	5.4	23.2	0.00703	40.446	0.297	19.673	1.27042849	0.75456
	7.49	0.6	23.2	0.00091	4.494	0.297	19.673	1.27042849	0.73649
				0.31250					

south	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	23.2	5.4	7.49	0.05248	98.28	0.382	19.58	1.73906155	0.94195
	23.2	0.6	7.49	0.00848	8.52	0.382	19.58	1.73906155	0.88598
	6.7	5.4	7.49	0.03297	27.18	0.382	19.58	1.36698545	0.82702
	6.7	0.6	7.49	0.00559	2.22	0.382	19.58	1.36698545	0.77105
				1.94865				t	g
door 1 2 3 4	3	3	7.49	0.01279	9	1.4	18.46	1.2835502	0.77326
	3	0.6	7.49	0.00322	1.8	1.4	18.46	1.2835502	0.74528
	6	3	7.49	0.02090	18	1.4	18.46	1.3512004	0.79416
	6	0.6	7.49	0.00524	3.6	1.4	18.46	1.3512004	0.76618
door 5	3	3	7.49	0.01279	9	1.4	18.46	1.2835502	0.77326
	3	0.6	7.49	0.00322	1.8	1.4	18.46	1.2835502	0.74528
				0.77817					

west	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	7.49	5.4	6.85	0.03884	40.446	0.248	19.727	1.40058044	0.84328
	7.49	0.6	6.85	0.00678	4.494	0.248	19.727	1.40058044	0.78208
	7.49	5.4	6.85	0.03884	40.446	0.248	19.727	1.40058044	0.84328
	7.49	0.6	6.85	0.00678	4.494	0.248	19.727	1.40058044	0.78208
				1.79962					

ceiling	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	23.2	7.49	5.4	0.07227	173.77	0.323	19.645	1.45162778	1.29593
	23.2	7.49	5.4	0.07227	173.77	0.323	19.645	1.45162778	1.29593
	6.7	7.49	5.4	0.04457	50.183	0.323	19.645	1.41184444	1.12915
	6.7	7.49	5.4	0.04457	50.183	0.323	19.645	1.41184444	1.12915
				4.59062					
slab	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	23.2	7.49	0.6	0.11066	173.77	0.162	19.554	1.89913	4.05590
	23.2	7.49	0.6	0.11066	173.77	0.162	19.554	1.89913	4.05590
	6.7	7.49	0.6	0.11504	50.183	0.287	19.211	1.54108	2.55495
	6.7	7.49	0.6	0.11504	50.183	0.287	19.211	1.54108	2.55495
				8.74774					

Results

MRT=	<u>20.77</u>		
T _{op} =	20.38	>19	OK!!

Transition space – viewer in the middle standing

tab	F*	A	B	C	D	E
fig. 4a	0.120	1.24186	0.16730	0.61648	0.08165	0.05128
fig. 4b	0.116	1.59512	0.12788	1.22643	0.04621	0.04434

Surfaces

north	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	15.76	5	3.4	0.09041	51.8	0.382	10.42	1.24186	0.99495
	15.76	1	3.4	0.02998	10.36	0.382	10.42	1.24186	0.99495
	15.76	5	3.4	0.09041	69.8	0.382	10.42	1.24186	0.99495
	15.76	1	3.4	0.02998	13.96	0.382	10.42	1.24186	0.99495
				2.50897				t	g
door 1 2 3 4	3	3	7.49	0.01424	9	1.4	11.54	1.30886935	0.66972
	3	0.6	7.49	0.00370	1.8	1.4	11.54	1.30886935	0.64356
	6	3	7.49	0.02332	18	1.4	11.54	1.37587869	0.69026
	6	0.6	7.49	0.00602	3.6	1.4	11.54	1.37587869	0.66410
door 5	3	3	7.49	0.01424	9	1.4	11.54	1.30886935	0.66972
	3	0.6	7.49	0.00370	1.8	1.4	11.54	1.30886935	0.64356
				0.54558					

east	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	3.4	8.4	15.76	0.01022	28.56	1.47	7.5743	1.27795264	0.67106
	3.4	1	15.76	0.00178	3.4	1.47	7.5743	1.27795264	0.63272
	3.4	8.4	15.76	0.01022	28.56	1.47	7.5743	1.27795264	0.67106
	3.4	1	15.76	0.00178	3.4	1.47	7.5743	1.27795264	0.63272
				0.18171					

south	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	15.76	8.4	3.4	0.09754	132.38	1.47	7.5743	2.01734471	1.05590
	15.76	1	3.4	0.03072	15.76	1.47	7.5743	2.01734471	0.87819
	15.76	8.4	3.4	0.09754	132.38	1.47	7.5743	2.01734471	1.05590
	15.76	1	3.4	0.03072	15.76	1.47	7.5743	2.01734471	0.87819
				1.94297					

west	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	3.4	8.4	23.76	0.00536	28.56	1.47	7.5743	1.26580024	0.65268
	3.4	1	23.76	0.00083	3.4	1.47	7.5743	1.26580024	0.62725
	3.4	8.4	23.76	0.00536	28.56	1.47	7.5743	1.26580024	0.65268
	3.4	1	23.76	0.00083	3.4	1.47	7.5743	1.26580024	0.62725
				0.09388					

ceiling	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	15.76	3.4	8.4	0.01951	53.584	1.47	7.5743	1.83504724	1.32832
	15.76	3.4	8.4	0.01951	53.584	1.47	7.5743	1.83504724	1.32832
	23.76	3.4	8.4	0.02329	80.784	1.47	7.5743	1.95683771	1.37055
	23.76	3.4	8.4	0.02329	80.784	1.47	7.5743	1.95683771	1.37055
				0.64834					
slab	a	b	c	F _{p,i}	A(m ²)	U	T _{s,i}	t	g
	15.76	3.4	1	0.09215	53.584	0.307	9.4934	3.6105088	2.08234
	15.76	3.4	1	0.09215	53.584	0.307	9.4934	3.6105088	2.08234
	23.76	3.4	1	0.08674	80.784	0.307	9.4934	4.6335488	2.43706
	23.76	3.4	1	0.08674	80.784	0.307	9.4934	4.6335488	2.43706
				3.39647					

Results

MRT=	9.32	
T _{op} =	14.66	>19