

Tuesday, June-09-20
 Dr. Tony Wan, Dr. Mark Cross
 Towne Dental
 Milton Mall Shopping Centre
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Fallow Time Analysis

Dear Drs. Wan and Cross,

As per your request we have reviewed your office layout and ventilation system to determine the fallow time as per the guidelines from the Royal College of Dental Surgeons of Ontario published on May 25, 2020.

We have calculated your base building air system and included the CFM values for each operatory as listed in the chart below.

In addition to your main ventilation system, you have installed in each operatory a combination of HEPA Filters as noted in the chart below.

You have placed additional HEPA units that exhaust air into the ceiling plenum. This creates a slight negative pressure in those rooms.

Additionally, you have installed sealed vinyl partition doors to isolate each of the operatories.

Please see the chart below that shows the different options of fallow time required based on the combined CFM of the HEPA filters and building airflow.

Wan-Cross		Fallow Time in Minutes			
Room #	Height	CFM			
		1167.5	1472.5	1212.5	692.5
1	10	6.03	4.87	5.82	9.60
2	10	6.03	4.87	5.82	9.60
3	10	5.48	4.42	5.29	8.72
4	10	5.48	4.42	5.29	8.72
5	10	5.48	4.42	5.29	8.72
6	10	5.44	4.40	5.25	8.62
7	10	5.98	4.84	5.78	9.48
8	10	5.98	4.84	5.78	9.48
	CFM	ACH			
1	110	69.68	86.32	72.14	43.77
2	110	69.68	86.32	72.14	43.77
3	110	76.65	94.95	79.35	48.15
4	110	76.65	94.95	79.35	48.15
5	110	76.65	94.95	79.35	48.15
6	120	77.25	95.55	79.95	48.75
7	120	70.23	86.86	72.68	44.32
8	120	70.23	86.86	72.68	44.32

HEPA CFM FOR EACH OPERATORY								
Room	OP 1	OP 2	OP 3	OP 4	OP 5	OP 6	OP 7	OP 8
HEPA	650	650	650	650	520	520	520	520
HEPA	345	345	650	650	520	520		
HEPA	172.5	172.5	172.5	172.5	172.5	172.5	172.5	172.5
Total	1167.5	1167.5	1472.5	1472.5	1212.5	1212.5	692.5	692.5

Please do not hesitate to contact me with any questions that you might have.



Joseph Simon

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