

PEPPERTREE AIR SOLUTIONS INC.

ELITE FLEXIBLE DUCTING COMMERCIAL - TYPE FP AND FM SOUND DATA *

STRAIGHT DUCT INSERTION LOSS PER 10FT. LENGTH IN dB						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	32 33	33 35	36 38	39 38	42 42	41 41
6" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	32 31	33 34	38 40	41 40	43 43	42 42
8" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	32 32	31 33	33 34	35 35	40 39	40 39
8" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	32 31	29 30	33 34	35 35	41 42	40 40
12" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	31 30	26 26	28 29	31 31	39 38	28 29
12" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	34 32	24 25	29 29	31 31	39 38	26 27

RADIATED NOISE REDUCTION PER 10FT. LENGTH IN dB						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	1 2	1 3	3 3	5 5	6 6	9 9
6" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	1 2	1 3	3 3	5 5	6 6	10 10
8" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	3 4	3 5	3 4	4 4	6 6	8 8
8" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	4 4	3 4	3 4	4 4	9 8	11 10
12" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	3 4	3 3	3 4	4 4	6 6	8 8
12" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	3 4	3 3	3 4	4 4	7 7	11 10

90° ELBOW INSERTION LOSS PER 10FT. LENGTH IN dB						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	34 34	38 36	41 40	42 41	41 41	42 41
6" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	36 35	39 37	40 39	42 40	43 42	41 40
8" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	35 35	38 39	37 37	37 37	38 38	41 41
8" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	36 35	38 39	38 38	39 38	40 40	42 42
12" DIA. @ ZERO FLOW FAB FP @ 2500 FPM	30 30	33 32	34 34	34 34	32 32	32 33
12" DIA. @ ZERO FLOW FAB FM @ 2500 FPM	34 34	33 32	32 32	32 33	30 30	30 32

SOUND GENERATION PER 10 FT. LENGTH IN dB re 10 ⁻¹² WATTS						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. FAB FP @ 1500 FPM	43	32	24	16	17	20
6" DIA. FAB FM @ 1500 FPM	43	33	20	14	16	19
8" DIA. FAB FP @ 1500 FPM	44	36	29	21	17	20
8" DIA. FAB FM @ 1500 FPM	45	37	30	21	17	18
12" DIA. FAB FP @ 1500 FPM	43	32	27	20	17	20
12" DIA. FAB FM @ 1500 FPM	43	30	25	18	16	20

*FP values tested in accordance with Air Diffusion Council's "Flexible Air Duct Test Code FD-72-R1" Section 3.0 "Sound Properties".
Results provided by ETL Testing Laboratories Inc. Report is available upon request.
FM values determined by interpolation based on FP, HP and HM test results.