

Silencer Schedule

Example

Silencer Schedule

Project: "Example Schedule"

Engineer:

Tag	Fan System	Face Dimensions		Length	Airflow	P.D. per ASTM E-477	P.D. with system effects (note 3)	Dynamic Insertion Loss (dB/O.B.) (note 2)								Vibro-Acoustics Model (note 4)	Remarks
		W (in.)	H (in.)					L (in.)	(cfm)	(in. wg.)	(in. wg.)	63	125	250	500		
1	S-1-RA	24	20	120	2,560	0.30	0.36	12	25	38	52	55	44	35	29	ZREMB-MV-F4	access door
2	S-1-RA	44	14	126	4,440	0.27	0.39	9	23	29	43	51	44	36	23	REMB-MHV-F5	access door
3	S-1-RA	48	26	108	10,750	0.18	0.25	9	19	29	45	45	38	37	19	RMB-MHV-F4	
4	S-1-SA	36	24	84	8,290	0.17	0.24	6	9	22	39	43	35	22	15	RMB-HV-F7	HTL casing
5	S-1-RA	42	16	90	4,675	0.22	0.26	7	16	25	38	41	38	31	25	REMB-MHV-F5	135° elbow
6	S-1-SA	37/40	24	84	14,135	0.28	0.34	10	12	19	28	28	20	14	10	TMB-UHV	
7	S-2-RA	30	16	120	2,520	0.27	0.34	13	22	39	41	46	37	29	26	REMB-MV-F1	access door
8	S-2-RA	48	14	78	4,140	0.26	0.33	9	16	26	34	37	36	27	22	REMB-MV-F4	access door
9	S-2-RA	46	24	108	8,980	0.26	0.34	12	21	32	42	52	33	19	12	RMB-MV-F4	
10	S-2-SA	36	24	84	7,250	0.22	0.27	8	11	25	45	44	39	26	17	RMB-MHV-F7	
11	S-2-RA	42	16	132	4,265	0.20	0.26	9	24	30	43	52	45	37	24	REMB-HV-F5	135° elbow
12	S-2-SA	33/37	24	108	12,655	0.28	0.34	9	17	25	29	28	21	16	12	TMB-UHV	

Notes:

- Length shown for elbow silencers is centerline length.
- Dynamic Insertion Loss determined in accordance with ASTM E477-99.
- Maximum pressure drop with system effects = silencer pressure drop per ASTM E477-99 + system effects for upstream and downstream duct elements.
- RMB = Rectangular MoldBlock
REMB = Rectangular Elbow MoldBlock; ZREMB = Rectangular Double Elbow MoldBlock
TMB = Transitional MoldBlock
- Provide, for approval, acoustical calculations for all systems with silencers to demonstrate that the resultant ductborne fan sound level, including airborne and breakout noise, in the occupied spaces, meet NC 35.
- Acoustic media shall be Vibro-Acoustics® MoldBlock Media™ containing natural cotton fibers treated with an EPA-registered, non-toxic borate solution to provide resistance to mold growth. Media shall comply with UL181 and NFPA 90A. MoldBlock Media™ shall be packed with a minimum of 15% compression during silencer assembly. Media shall not cause or accelerate corrosion of aluminum or steel. Glass fiber, fiberglass or rockwool shall not be permitted as a substitute for MoldBlock Media™.