

Flow Method: Hole Added from House to Zone

Start Press		Ending Pressure After Making Hole to from House to Zone																				Uncertainty based on 1 Pa Errors					
H/Z	Z/O	44	42	40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6		4	2	0		
		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44		46	48	50		
50	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10%		
49	1		0.35	0.29	0.25	0.22	0.20	0.18	0.17	0.15	0.15	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	15%		
48	2		0.68	0.54	0.45	0.39	0.35	0.32	0.29	0.27	0.25	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.17	0.16	0.15	0.15	0.15	0.14	20%		
47	3			0.84	0.68	0.58	0.51	0.45	0.41	0.38	0.35	0.33	0.31	0.29	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.20	0.19	25%		
46	4			1.23	0.96	0.80	0.68	0.60	0.54	0.49	0.45	0.42	0.39	0.37	0.35	0.33	0.32	0.30	0.29	0.28	0.27	0.26	0.25	0.24	>26%		
45	5				1.30	1.05	0.89	0.77	0.68	0.62	0.56	0.52	0.48	0.45	0.43	0.40	0.38	0.37	0.35	0.33	0.32	0.31	0.30	0.29			
44	6				1.76	1.36	1.12	0.96	0.84	0.75	0.68	0.63	0.58	0.54	0.51	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.35	0.34			
43	7					1.76	1.41	1.18	1.02	0.90	0.81	0.74	0.68	0.63	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.42	0.40	0.39			
42	8						2.28	1.76	1.44	1.23	1.08	0.96	0.87	0.80	0.73	0.68	0.64	0.60	0.57	0.54	0.52	0.49	0.47	0.45	0.44		
41	9							2.20	1.76	1.47	1.27	1.12	1.01	0.92	0.84	0.78	0.73	0.68	0.65	0.61	0.58	0.55	0.53	0.51	0.49		
40	10								2.80	2.15	1.76	1.49	1.30	1.16	1.05	0.96	0.89	0.82	0.77	0.72	0.68	0.65	0.62	0.59	0.54		
39	11									2.65	2.11	1.76	1.51	1.33	1.20	1.09	1.00	0.92	0.86	0.81	0.76	0.72	0.68	0.65	0.60		
38	12									3.32	2.54	2.07	1.76	1.53	1.36	1.23	1.12	1.03	0.96	0.90	0.84	0.80	0.75	0.72	0.65		
37	13									3.09	2.45	2.04	1.76	1.55	1.38	1.26	1.15	1.07	0.99	0.93	0.87	0.83	0.79	0.75	0.71		
36	14									3.83	2.93	2.38	2.02	1.76	1.56	1.41	1.28	1.18	1.09	1.02	0.96	0.90	0.86	0.81	0.78		
35	15									3.54	2.80	2.33	2.00	1.76	1.57	1.42	1.30	1.21	1.12	1.05	0.99	0.93	0.89	0.84			
34	16									4.35	3.32	2.70	2.28	1.98	1.76	1.58	1.44	1.33	1.23	1.15	1.08	1.01	0.96	0.91			
33	17										3.98	3.14	2.61	2.24	1.97	1.76	1.59	1.46	1.34	1.25	1.17	1.10	1.04	0.98			
32	18										4.86	3.70	3.01	2.54	2.20	1.95	1.76	1.60	1.47	1.36	1.27	1.19	1.12	1.06			
31	19											4.42	3.49	2.89	2.48	2.18	1.94	1.76	1.61	1.48	1.38	1.29	1.21	1.14			
30	20											5.38	4.09	3.32	2.80	2.43	2.15	1.93	1.76	1.61	1.49	1.39	1.30	1.23			
29	21											4.86	3.83	3.18	2.72	2.38	2.13	1.92	1.76	1.62	1.50	1.41	1.32				
28	22											5.89	4.48	3.63	3.06	2.65	2.34	2.11	1.91	1.76	1.63	1.51	1.42				
27	23	Attic Example (House in Winter Mode)										5.30	4.18	3.46	2.96	2.59	2.31	2.09	1.91	1.76	1.63	1.52					
26	24	Attic Access Closed with Hose Running to Blower Door										6.41	4.86	3.94	3.32	2.87	2.54	2.28	2.07	1.90	1.76	1.64					
25	25	Measure House CFM 50 (example: 2400 CFM50)											5.75	4.52	3.74	3.20	2.80	2.49	2.25	2.06	1.89	1.76					
24	26	Measure House to Attic Pressure (Verify with Attic to Outside)											6.92	5.25	4.25	3.57	3.09	2.73	2.45	2.23	2.04	1.89					
23	27	(example: 36 PA House to Attic)												6.19	4.86	4.02	3.44	3.01	2.68	2.42	2.20	2.03					
22	28													7.43	5.64	4.55	3.83	3.32	2.93	2.63	2.38	2.18					
21	29	Make Opening From House to Attic													6.63	5.21	4.30	3.67	3.21	2.86	2.58	2.35					
20	30	(enough for at least 6 PA Change)														7.95	6.02	4.86	4.09	3.54	3.12	2.80	2.54				
19	31	Measure House CFM 50 (example: 3000 CFM50)														7.07	5.55	4.58	3.91	3.42	3.04	2.74					
18	32	Measure House to Attic Pressure (Verify with Attic to Outside)														8.46	6.41	5.17	4.35	3.76	3.32	2.97					
17	33	(example: 20PA House to Attic)															7.51	5.89	4.86	4.15	3.63	3.23					
16	34																8.98	6.79	5.48	4.61	3.98	3.51					
15	35																	7.95	6.24	5.14	4.39	3.83					
14	36	Take 2nd Blower Door Reading (3000) - First Blower Reading (2400) = 600															9.49	7.18	5.79	4.86	4.20						
13	37	Look in Row with 36 H/Z and move over to Column with 20 H/Z to Find Multiplier = 1.56																8.39	6.58	5.42	4.63						
12	38																		10.00	7.56	6.10	5.12					
11	39	Take 600 X 1.56 = 936																		8.83	6.92	5.71					
10	40	(This is Maximum CFM50 REDUCTION AVAILABLE by sealing all holes to Attic)																		10.52	7.95	6.41					
9	41	To Determine Uncertainty Range multiply Answer by percentage in Uncertainty Table																			9.27	7.26					
8	42	To Determine Approximate Hole Size Divide Answer by 10 (936 / 10= 94 sq in)																				11.03	8.33				
7	43																							9.71			
6	44																									11.54	

Before Hole

CFM50

H/Z

After Hole

CFM50

H/Z

ANSWER

CFM50 Diff

Multiplier

Maximum Reduction

(total path CFM50)

ext exponent =0.65
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