

<b>RhinoROC® Airflow Perforated Tile Performance Charts</b>										
<b>Airflow Panel</b>	<b>0.02" H2O (5 Pa)</b>		<b>0.04" H2O (10 Pa)</b>		<b>0.06" H2O (15 Pa)</b>		<b>0.08" H2O (20 Pa)</b>		<b>0.10" H2O (25 Pa)</b>	
	<b>CFM</b>	<b>L/s</b>	<b>CFM</b>	<b>L/s</b>	<b>CFM</b>	<b>L/s</b>	<b>CFM</b>	<b>L/s</b>	<b>CFM</b>	<b>L/s</b>
Perf 15% w/o damper	319	150	451	212	552	259	637	299	712	335
Perf 20% w/o damper	425	200	601	282	736	346	850	399	950	446
Perf 25% w/o damper	531	250	751	353	920	432	1062	499	1187	558
Perf 30% w/o damper	637	299	901	423	1104	519	1274	599	1425	670
Perf 35% w/o damper	743	349	1051	494	1287	605	1487	699	1662	781
Perf 45% w/o damper	956	449	1352	635	1655	778	1911	898	2137	1004
Perf 55% w/o damper	1168	549	1652	776	2023	951	2336	1098	2612	1228
Perf 68% w/o damper	1444	679	2042	960	2501	1176	2888	1358	3229	1518

**Airflow Performance Calculation**

CP = 1

$$P = 0.5\rho V^2$$

$$Q=VA$$

$$\rho = 1.29 \text{ kg/m}^3$$

$$5 \text{ pa} = 0.5 \times 1.29 \times V^2$$

$$V = \text{SQRT}(5/0.5/1.29) = 2.784 \text{ m/s}$$

i.e a operate rate 25% perforated airflow tile:

$$Q=2.784 \times 0.6 \times 0.6 \times 0.25 = 0.25 \text{ m}^3/\text{s}$$

$$0.25 \text{ m}^3/\text{s} = 530 \text{ CFM}$$

Calculation was based on CP=1 (Coefficient of Performance, CP = 0 - 1)

When CP = 0.7, the actual Perf-25% w/o damper airflow = 530 x 0.7 = 371 CFM

**Factory**

2 Jishan Road, Jiangyin  
 Wuxi 214445  
 China  
 Phone +86 519 8988 3171  
 Fax +86 519 8988 3901  
 Info@RhinoAccessFloors.com  
 www.RhinoAccessFloors.com

**Headquarters**

593, Tongjiang Road | Jintian Plaza 828-830  
 Changzhou 213022 | Jiangsu, China  
 Managing Director:  
 Mr. Zhongchun Dai  
 Mobile: +86 159 6141 2270  
 Commercial Reg. No. 91320411564348344J  
 VAT Reg. No. 91320411564348344J

**Banks:**

Bank of China, Changzhou New Area Branch  
 Tianan Industrial Village | Changzhou Xinbei | Jiangsu | China  
 IBAN: 475458232608, Swift BIC: BKCHCNBJ95E  
 Agricultural Bank of China, Head Office, P.R. China  
 311 Tongjiang Middle Road | Changzhou | Jiangsu | China  
 IBAN: 10615114040014207, Swift BIC: ABOCCNBJ