

# Perforated Supply Grille

Nominal Duct Size (in.)	Nominal Duct Area (ft <sup>2</sup> )	Core Area (ft <sup>2</sup> )	Core Velocity Velocity Pressure Neg. Static Pressure	NC 10				NC 20			NC 30		NC 40
				300 0.006 0.029	400 0.010 0.051	500 0.016 0.079	600 0.022 0.114	700 0.031 0.156	800 0.040 0.203	1000 0.062 0.318	1200 0.090 0.458	1400 0.122 0.623	
<b>6x6</b>	<b>0.25</b>	<b>0.19</b>	Air Flow, cfm NC	57 -	76 -	95 -	114 -	133 13	152 16	190 21	228 26	266 30	
<b>8x6</b>	<b>0.33</b>	<b>0.26</b>	Air Flow, cfm NC	78 -	104 -	130 -	156 -	182 14	208 17	260 23	312 27	364 31	
<b>10x6</b>	<b>0.42</b>	<b>0.34</b>	Air Flow, cfm NC	102 -	136 -	170 -	204 11	238 15	272 18	340 24	408 28	476 32	
<b>8x8</b>	<b>0.44</b>	<b>0.37</b>	Air Flow, cfm NC	111 -	148 -	185 -	222 12	259 15	296 19	370 24	444 29	518 33	
<b>12x6</b>	<b>0.50</b>	<b>0.41</b>	Air Flow, cfm NC	123 -	164 -	205 -	246 12	287 16	328 19	410 25	492 29	574 33	
<b>14x6</b>	<b>0.58</b>	<b>0.48</b>	Air Flow, cfm NC	144 -	192 -	240 -	288 13	336 17	384 20	480 25	576 30	672 34	
<b>16x6</b>			Air Flow, cfm	171	228	285	342	399	456	570	684	798	
<b>12x8</b>	<b>0.67</b>	<b>0.57</b>	Air Flow, cfm NC	- -	- -	- -	14 17	17 21	21 26	26 31	31 34	34 36	
<b>10x10</b>	<b>0.69</b>	<b>0.59</b>	Air Flow, cfm NC	177 -	236 -	295 -	354 14	413 18	472 21	590 26	708 31	826 35	
<b>18x6</b>	<b>0.75</b>	<b>0.63</b>	Air Flow, cfm NC	189 -	252 -	315 -	378 14	441 18	504 21	630 27	756 31	882 35	
<b>20x6</b>			Air Flow, cfm	216	288	360	432	504	576	720	864	1008	
<b>12x10</b>	<b>0.83</b>	<b>0.72</b>	Air Flow, cfm NC	- -	- -	- -	15 18	18 22	22 27	27 32	32 35	35 36	
<b>22x6</b>	<b>0.92</b>	<b>0.77</b>	Air Flow, cfm NC	231 -	308 -	385 -	462 15	539 19	616 22	770 27	924 32	1078 36	
<b>24x6</b>			Air Flow, cfm	264	352	440	528	616	704	880	1056	1232	
<b>12x12</b>	<b>1.00</b>	<b>0.88</b>	Air Flow, cfm NC	- -	- -	11 15	15 19	19 23	23 28	28 32	32 36	36 36	
<b>30x6</b>			Air Flow, cfm	333	444	555	666	777	888	1110	1332	1554	
<b>18x10</b>	<b>1.25</b>	<b>1.11</b>	Air Flow, cfm NC	- -	- -	12 16	16 20	20 24	24 29	29 33	33 37	37 38	
<b>14x14</b>	<b>1.36</b>	<b>1.22</b>	Air Flow, cfm NC	366 -	488 -	610 12	732 17	854 21	976 24	1220 29	1464 34	1708 38	
<b>36x6</b>			Air Flow, cfm	405	540	675	810	945	1080	1350	1620	1890	
<b>18x12</b>	<b>1.50</b>	<b>1.35</b>	Air Flow, cfm NC	- -	- -	13 17	17 21	21 24	24 30	30 34	34 38	38 38	
<b>22x10</b>	<b>1.53</b>	<b>1.37</b>	Air Flow, cfm NC	411 -	548 -	685 13	822 17	959 21	1096 24	1370 30	1644 34	1918 38	
<b>30x8</b>			Air Flow, cfm	447	596	745	894	1043	1192	1490	1788	2086	
<b>24x10</b>	<b>1.67</b>	<b>1.49</b>	Air Flow, cfm NC	- -	- -	13 18	18 22	22 25	25 30	30 35	35 39	39 39	
<b>42x6</b>			Air Flow, cfm	477	636	795	954	1113	1272	1590	1908	2226	
<b>18x14</b>	<b>1.75</b>	<b>1.59</b>	Air Flow, cfm NC	- -	- -	14 18	18 22	22 25	25 31	31 35	35 39	39 39	
<b>16x16</b>	<b>1.78</b>	<b>1.62</b>	Air Flow, cfm NC	486 -	648 -	810 14	972 18	1134 22	1296 25	1620 31	1944 35	2268 39	
<b>24x12</b>	<b>2.00</b>	<b>1.82</b>	Air Flow, cfm NC	546 -	728 -	910 14	1092 19	1274 22	1456 26	1820 31	2184 36	2548 39	
<b>18x18</b>	<b>2.25</b>	<b>2.07</b>	Air Flow, cfm NC	621 -	828 -	1035 15	1242 19	1449 23	1656 26	2070 32	2484 36	2898 40	
<b>24x14</b>	<b>2.33</b>	<b>2.14</b>	Air Flow, cfm NC	642 -	856 -	1070 15	1284 19	1498 23	1712 26	2140 32	2568 36	2996 40	
<b>30x12</b>	<b>2.50</b>	<b>2.29</b>	Air Flow, cfm NC	687 -	916 -	1145 15	1374 20	1603 23	1832 27	2290 32	2748 37	3206 40	
<b>24x16</b>	<b>2.67</b>	<b>2.46</b>	Air Flow, cfm NC	738 -	984 -	1230 15	1476 20	1722 24	1968 27	2460 32	2952 37	3444 41	
<b>20x20</b>	<b>2.78</b>	<b>2.57</b>	Air Flow, cfm NC	771 -	1028 -	1285 16	1542 20	1799 24	2056 27	2570 33	3084 37	3598 41	
<b>36x12</b>	<b>3.00</b>	<b>2.75</b>	Air Flow, cfm NC	825 -	1100 -	1375 16	1650 20	1925 24	2200 27	2750 33	3300 37	3850 41	
<b>30x16</b>	<b>3.33</b>	<b>3.11</b>	Air Flow, cfm NC	933 -	1244 11	1555 16	1866 21	2177 25	2488 28	3110 33	3732 38	4354 42	
<b>22x22</b>	<b>3.36</b>	<b>3.14</b>	Air Flow, cfm NC	942 -	1256 11	1570 17	1884 21	2198 25	2512 28	3140 34	3768 38	4396 42	
<b>42x12</b>			Air Flow, cfm	966	1288	1610	1932	2254	2576	3220	3864	4508	
<b>36x14</b>	<b>3.50</b>	<b>3.22</b>	Air Flow, cfm NC	- -	11 17	17 21	21 25	25 28	28 34	34 38	38 42	42 42	
<b>24x22</b>	<b>3.67</b>	<b>3.43</b>	Air Flow, cfm NC	1029 -	1372 11	1715 17	2058 21	2401 25	2744 28	3430 34	4116 38	4802 42	
<b>30x18</b>	<b>3.75</b>	<b>3.5</b>	Air Flow, cfm NC	1050 -	1400 12	1750 17	2100 21	2450 25	2800 29	3500 34	4200 38	4900 42	

Static pressures are negative, in inches of water, measured per ASHRAE 70-91  
 NC based on room absorption of 10dB, re 10<sup>-12</sup> watts, measured per ASHRAE 70-91