

Envisivent Air Flow Data



Supply Vents

Product Identifier	Opening Width [in]	Opening Height [in]	Core Area [ft ²]	Core Velocity [FPM]											
				300	400	500	600	700	800	1000	1200	1400			
Air Supply 12 x 4	11	3	0.2292	Core Velocity Pressure [“wc]	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122		
				Flow [CFM]	45	60	75	90	105	120	150	180	210		
				Static Pressure [“wc]	0.014	0.024	0.038	0.054	0.074	0.096	0.150	0.217	0.295		
				Throw [ft] (150 100 50)	3 5 11	5 7 15	6 9 19	7 11 23	8 13 27	10 15 32	19 40	15 23 49	18 27 57		

Notes:

1. The test procedures are based on ASHRAE 70.
2. Core Velocity – The average airstream velocity at the face of the grille, measured in feet per minute.
3. Core Velocity Pressure – The dynamic pressure of the airstream at the grille face. This pressure is relative to the core velocity and reported in inches of water (“wc)
4. Flow Rate – The volumetric rate of airflow through the grille, measured in cubic feet per minute (CFM)
5. Static Pressure – The air pressure difference across the grille at a given flow rate or velocity, measured in inches of water (“wc).
6. Throw – The distance away from a supply grille (i.e. perpendicular to the grille face) where the airstream velocity has slowed to a particular envelope velocity.
7. PER = PERMANENT/REM = REMOVABLE.

tested by:  Airflow Sciences Corporation