

Project Title: Supply Fan SF-5 Ductwork  
 Project ID: 30206  
 Project Manger: T.M.

Prepared By: W.T  
 Checked By: D.W.  
 Sheet: 1 of 1  
 Date: 2/3/18

**DUCT TRAVERSE AIRFLOW MEASUREMENT**

System: AHU-1  
 Area Served: First Floor Office Area  
 Traverse Location: Main Supply Duct, 10 ft from fan  
 Date: 2/3/18  
 Time: 7:00 PM  
 Tech: J.W.

**Project Description:**

Tested with John S.

Duct Inside Dimensions		
Width	14	inches
Height	12	inches

Number of Traverse	
On Width	4
On Height	3

**Rectangular Duct Traverse Readings (FPM)**

		DUCT WIDTH									
		1	2	3	4	5	6	7	8	9	10
DUCT HEIGHT	A	1,668	1,703	1,651	1,000						
	B	1,643	1,945	1,712	1,167						
	C	1,459	1,677	1,479	1,123						
	D										
	E										
	F										
	G										
	H										

Total FPM = 18,227
Number of Reading = 12

Average Velocity = 1,519 FPM
Duct Sectional Area = 1.17 SF
<b>Total Airflow = 1,772 CFM</b>

	Design vs. Measured			
	Design	Measured	Difference	% Diff.
Duct Size	14x12	14x12	N/A	N/A
Velocity (FPM)	1,500	1,519	-19	-1%
Airflow (CFM)	2,500	1,772	728	29%

Based on Equal Area  
 Average Velocity = Total FPM / Number of Reading  
 Total Airflow = Average Velocity x Area

**Notes:**

Measurements take on 6/5/16