

Standard Version (Sample)

Project Title: Supply Fan SF-5 Ductwork		Prepared By: W.T	Sheet: 1 of 1
Project ID: 30206		Checked By: D.W.	Date: 2/3/18
Project Manger: T.M.			

DUCT TRAVERSE AIRFLOW MEASUREMENT

System: AHU-1	Date: 2/3/18
Area Served: First Floor Office Area	Time: 7:00 PM
Traverse Location: Main Supply Duct, 10 ft from fan	Tech: J.W.
Notes: 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
Total Airflow = 1,772 CFM

	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%

REMARKS:

Measurements taken on 6/5/16.

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

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