

Air Duct Leakage Summary

Project Name : Campbell university student union
System ID : AHU 5 level one
Duct Construction Pressure :
Specified Test Pressure : 4 in. w.g.
Unit : English

Shape	Dimensions	Duct Length	Surface Area	Leakage Class	Leakage Factor	Allowable Leakage
Rectangle	Width : 18 in. Height : 16 in.	55 ft	311.67 ft ²	6	14.77 cfm/100*f t ²	46.03 cfm
Rectangle	Width : 28 in. Height : 18 in.	35 ft	268.33 ft ²	6	14.77 cfm/100*f t ²	39.63 cfm
Rectangle	Width : 22 in. Height : 18 in.	30 ft	200.00 ft ²	6	14.77 cfm/100*f t ²	29.54 cfm
Rectangle	Width : 30 in. Height : 18 in.	95 ft	760.00 ft ²	6	14.77 cfm/100*f t ²	112.25 cfm
Rectangle	Width : 26 in. Height : 20 in.	30 ft	230.00 ft ²	6	14.77 cfm/100*f t ²	33.97 cfm
Rectangle	Width : 22 in. Height : 20 in.	25 ft	175.00 ft ²	6	14.77 cfm/100*f t ²	25.85 cfm
Rectangle	Width : 12 in. Height : 12 in.	135 ft	540.00 ft ²	6	14.77 cfm/100*f t ²	79.76 cfm
Rectangle	Width : 48 in. Height : 24 in.	40 ft	480.00 ft ²	6	14.77 cfm/100*f t ²	70.90 cfm





Air Duct Leakage Summary

Project Name : Campbell university student Union
System ID : AHU 1 level one
Duct Construction Pressure :
Specified Test Pressure : 4 in. w.g.
Unit : English

Shape	Dimensions	Duct Length	Surface Area	Leakage Class	Leakage Factor	Allowable Leakage
Rectangle	Width : 32 in. Height : 20 in.	20 ft	173.33 ft ²	6	14.77 cfm/100* t ²	25.60 cfm
Rectangle	Width : 38 in. Height : 18 in.	30 ft	280.00 ft ²	6	14.77 cfm/100* t ²	41.36 cfm
Rectangle	Width : 28 in. Height : 18 in.	25 ft	191.67 ft ²	6	14.77 cfm/100* t ²	28.31 cfm
Rectangle	Width : 16 in. Height : 12 in.	20 ft	93.33 ft ²	6	14.77 cfm/100* t ²	13.78 cfm
Round	Diameter : 8 in.	15 ft	31.40 ft ²	3	7.39 cfm/100* ft ²	2.32 cfm
Round	Diameter : 10 in.	10 ft	26.17 ft ²	3	7.39 cfm/100* ft ²	1.93 cfm
Round	Diameter : 12 in.	40 ft	125.60 ft ²	3	7.39 cfm/100* ft ²	9.28 cfm
Round	Diameter : 14 in.	25 ft	91.58 ft ²	3	7.39 cfm/100* ft ²	6.77 cfm





Air Duct Leakage Summary

Project Name : Campbell university student union
System ID : AHU 3 level one
Duct Construction Pressure :
Specified Test Pressure : 4 in. w.g.
Unit : English

Shape	Dimensions	Duct Length	Surface Area	Leakage Class	Leakage Factor	Allowable Leakage
Rectangle	Width : 48 in. Height : 30 in.	30 ft	390.00 ft ²	6	14.77 cfm/100* t ²	57.60 cfm
Rectangle	Width : 32 in. Height : 24 in.	25 ft	233.33 ft ²	6	14.77 cfm/100* t ²	34.46 cfm
Rectangle	Width : 28 in. Height : 18 in.	15 ft	115.00 ft ²	6	14.77 cfm/100* t ²	16.99 cfm
Rectangle	Width : 12 in. Height : 10 in.	5 ft	18.33 ft ²	6	14.77 cfm/100* t ²	2.71 cfm
Round	Diameter : 16 in.	10 ft	41.87 ft ²	3	7.39 cfm/100* ft ²	3.09 cfm
Round	Diameter : 18 in.	10 ft	47.10 ft ²	3	7.39 cfm/100* ft ²	3.48 cfm
Round	Diameter : 14 in.	5 ft	18.32 ft ²	3	7.39 cfm/100* ft ²	1.35 cfm
Round	Diameter : 10 in.	10 ft	26.17 ft ²	3	7.39 cfm/100* ft ²	1.93 cfm

Leakage Test Equipment ID : 4765-5

Total Allowable Leakage :	121.61 cfm
Pressure Difference :	
Measured Leakage :	95.2 cfm
Performed By :	Kenny Davenport
Witnessed By :	
Date :	21-Jun-2019

Note: Leakage Class is (cfm/100* ft^2 per in wg)