Installation Data Pack for Balliol College

Address	Oxford
Pipe Type	Europe
Date	12/02/10
Installer	CLFS
Calculated By	Ian Wilson
Units	Metric
Altitude	0.0m
Designed with Hole Sizes	3.0mm

Detector : Hall - Main Hall

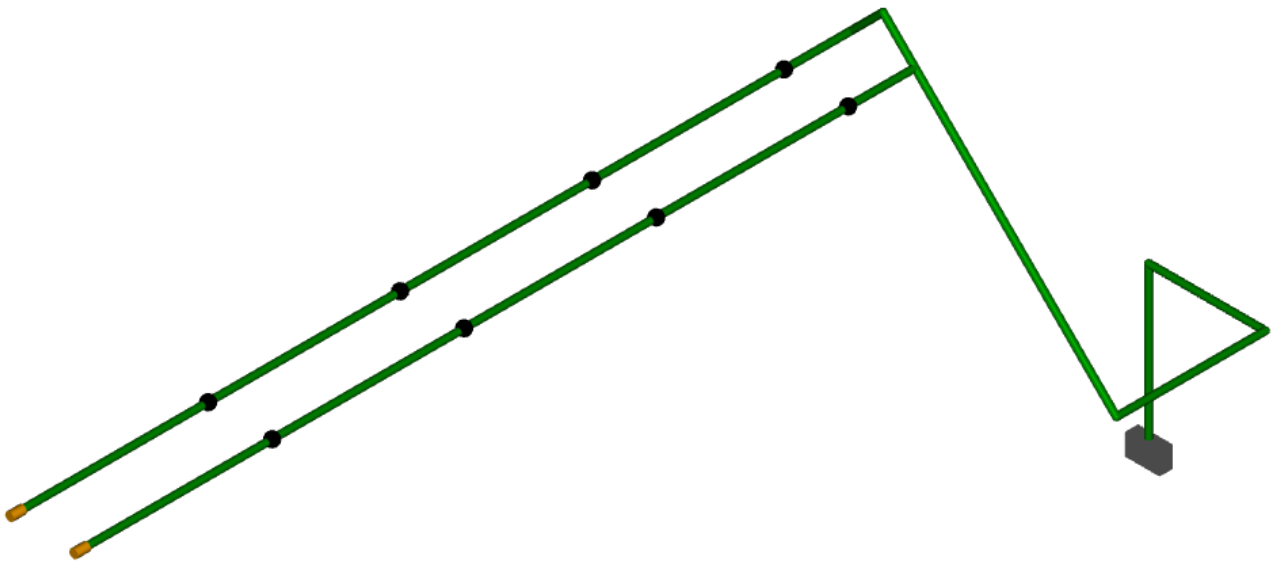
Type	VESDA VLC V2 80m/240ft
Endcap Usage	Create a Balanced Design
Application	default
Fire	0.200%/m
Air Temperature	20.0°C
Absolute Pressure	1013hPa
System Flowrate	42.3l/min
Total Pipe Length	57.0m
Number Of Sample Points	10
Maximum Transport Time	44
Minimum Hole Flow Rate	2.0l/min
Exhaust Length	0.0m
Exhaust Diameter	21.0mm
Exhaust Pressure Drop	0Pa
Inverted Detector	No

Sampling Point Sensitivity

Threshold	Level	Classification	Hole Aggregation
Fire	0.200%/m	Class C	1

Group Details

	Hole Sensitivity	Pressure	Transport Time	Hole Diameter	[Default Group]
Group Type					
Max Target Aggregate Sensitivity					0.300
Min Target Aggregate Sensitivity					0.100
Contribution ratio(%)					100
Applied Max Aggregate Sensitivity					0.300
Applied Min Aggregate Sensitivity					0.100
Target Suction Pressure					25
Target Balance					70
Exclude from Autobalance					0
1:Section1-1	1.986	119	11	3.0	X
1:Section1-2	2.031	114	15	3.0	X
1:Section1-3	2.064	110	20	3.0	X
1:Section1-4	2.087	108	27	3.0	X
1:Section1-5	1.785	106	41	3.0	X
1:Section0-1	2.017	115	13	3.0	X
1:Section0-2	2.063	110	17	3.0	X
1:Section0-3	2.097	107	22	3.0	X
1:Section0-4	2.121	104	29	3.0	X
1:Section0-5	1.814	103	44	3.0	X
Number of holes					10
Flow Share(%)					100
Aggregate Sensitivity					0.200
Balance(%)					84
Suction pressure (least)					103



Isometric Hall - Main Hall	

Pipe:Main Pipe

Total Pipe Length	57.0m
Ambient Pressure	0Pa
Sector Pressure	206Pa
Number of Sample Points	10
Pipe Flowrate	42.3l/min

Section0

Pipe Diameter 21.0mm

#		Distance m	Relative m	Direction	Hole Diameter	Capillary Length	Transport Time	Pressure	Flow	Flow %	Hole Sensitivity	Pipe Diameter mm	Capillary Diameter	Intersection Pressure
-	**Bend 90**	3.50	3.50	R										
-	**Bend 90**	6.20	2.70	B										
-	**Bend 90**	9.65	3.45	LU										
-	**Branch**	16.25	6.60	B										
-	**Bend 90**	17.30	1.05	LD										
-	**Bend 90**	18.35	1.05	B										
1:Section0-1	**Hole**	19.90	1.55		3.0		13	115	4.2	9.9	2.017	21.0		
1:Section0-2	**Hole**	24.35	4.45		3.0		17	110	4.1	9.7	2.063	21.0		
1:Section0-3	**Hole**	28.80	4.45		3.0		22	107	4.0	9.5	2.097	21.0		
1:Section0-4	**Hole**	33.25	4.45		3.0		29	104	4.0	9.4	2.121	21.0		
1:Section0-5	**Endcap**	37.70	4.45		3.0		44	103	4.7	11.0	1.814	21.0		

Section1

Pipe Diameter 21.0mm

#		Distance m	Relative m	Direction	Hole Diameter mm	Capillary Length	Transport Time sec	Pressure Pa	Flow l/min	Flow %	Hole Sensitivity %/m	Pipe Diameter mm	Capillary Diameter	Intersection Pressure
1:Section1-1	**Hole**	17.80	1.55		3.0		11	119	4.3	10.1	1.986	21.0		
1:Section1-2	**Hole**	22.25	4.45		3.0		15	114	4.2	9.8	2.031	21.0		
1:Section1-3	**Hole**	26.70	4.45		3.0		20	110	4.1	9.7	2.064	21.0		
1:Section1-4	**Hole**	31.15	4.45		3.0		27	108	4.1	9.6	2.087	21.0		
1:Section1-5	**Endcap**	35.60	4.45		3.0		41	106	4.7	11.2	1.785	21.0		