



Installation Data Pack for Stonehenge Visitors Centre

Address	Wiltshire
Pipe Type	Europe
Date	04/04/13
Installer	WFS
Calculated By	Ian Wilson
Units	Metric
Altitude	0.0m
Designed with Hole Sizes	2.5;3.0mm

Detector : South Building (South) - Ceiling Void

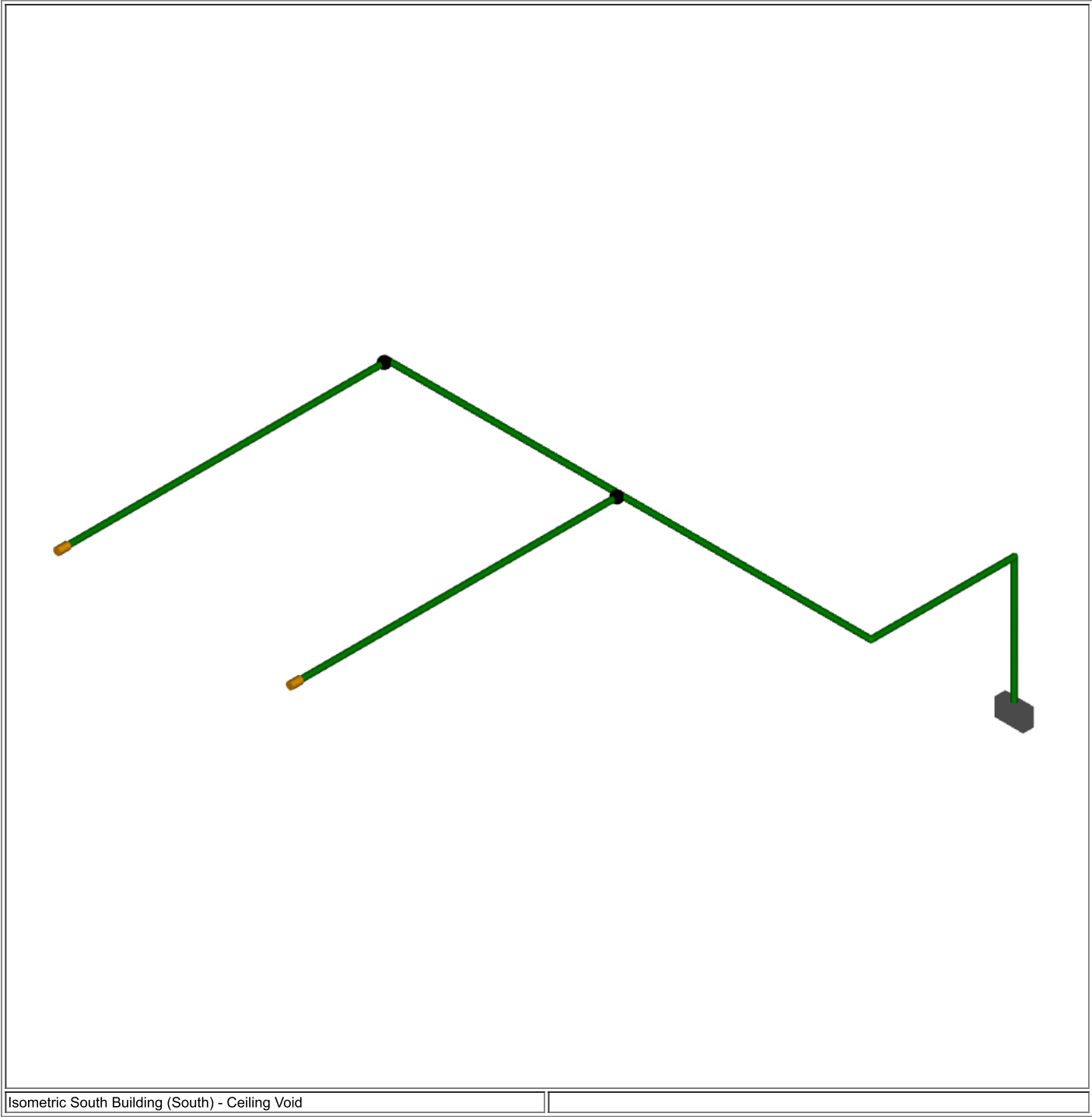
Type	VESDA VLC V2 80m/240ft
Endcap Usage	Create a Balanced Design
Application	default
Fire	0.200%/m
Air Temperature	20.0°C
Absolute Pressure	1013hPa
System Flowrate	22.8l/min
Total Pipe Length	39.2m
Number Of Sample Points	4
Maximum Transport Time	41
Minimum Hole Flow Rate	2.0l/min
Exhaust Length	0.0m
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:North Section-1	0.861	184	12	3.0	X
1:North Section-2	0.739	180	32	3.0	X
1:Section0-1	0.872	179	20	3.0	X
1:Section0-2	0.748	176	41	3.0	X
Number of holes					4
Flow Share(%)					100
Aggregate Sensitivity					0.200
Balance(%)					85
Suction pressure (least)					176



Isometric South Building (South) - Ceiling Void

Pipe:Main Pipe

Total Pipe Length 39.2m
Ambient Pressure 0Pa
Sector Pressure 210Pa
Number of Sample Points 4
Pipe Flowrate 22.8l/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	B										
-	Bend 90	7.50	4.00	L										
-	Branch	14.50	7.00	B										
-	Bend 90	21.00	6.50	B										
1:Section0-1	Hole	21.10	0.10		3.0		20	179	5.2	22.9	0.872	21.0		
1:Section0-2	Endcap	30.10	9.00		3.0		41	176	6.1	26.7	0.748	21.0		

North Section

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:North Section-1	Hole	14.60	0.10		3.0		12	184	5.3	23.2	0.861	21.0		
1:North Section-2	Endcap	23.60	9.00		3.0		32	180	6.2	27.1	0.739	21.0		

