

Project report: System ssący - serwerownia B S.3



System provider:

Company:
Address:
Town:
Phone:

Customer:

Szczeciński Park Naukowo – Technologiczny Sp. z o.o.
ul. Niemierzyńska 17a
71-441 Szczecin

Comment:

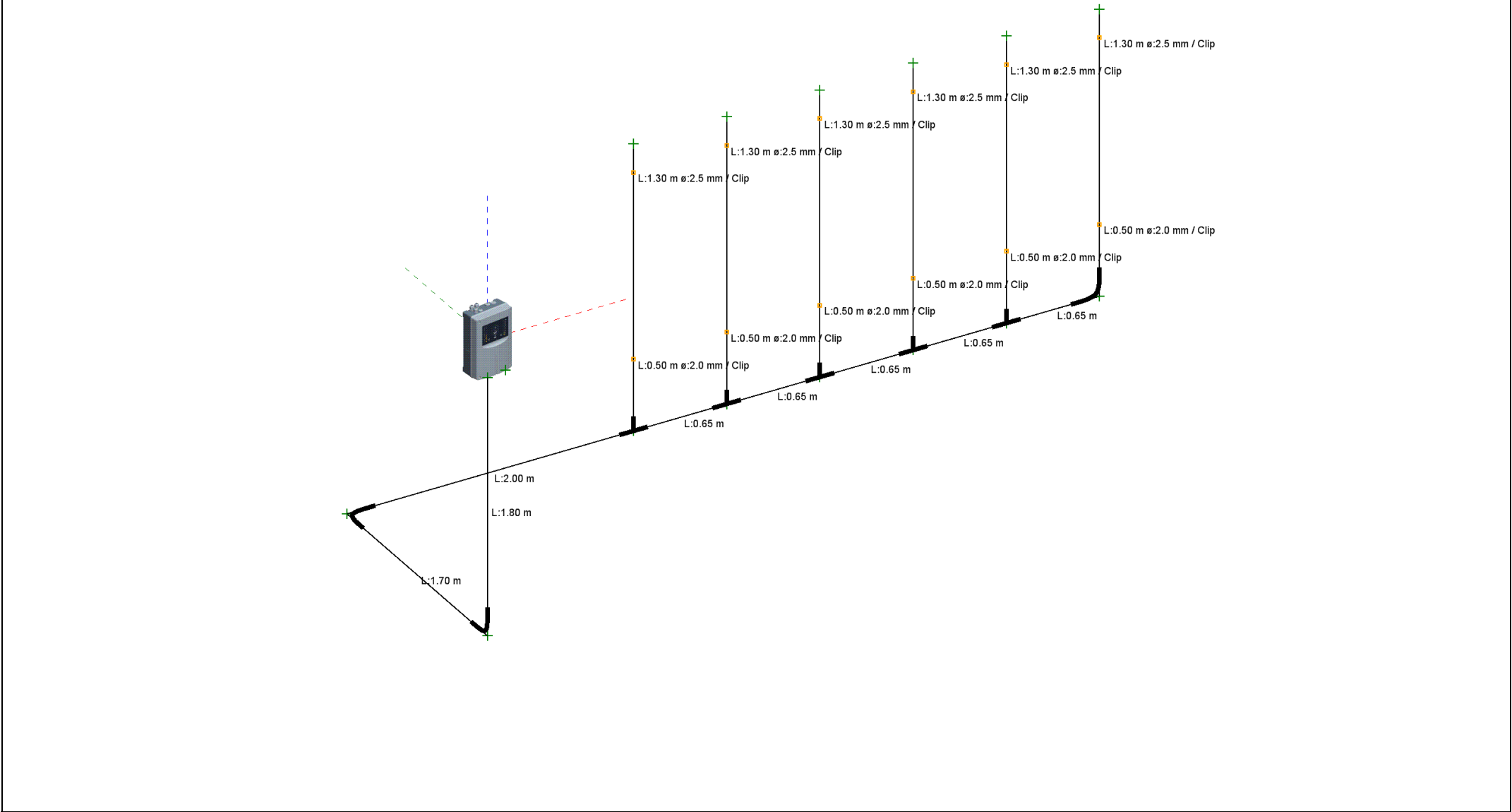
Budowa i wyposażenie I etapu POMERANIA TECHNOPARK w Szczecinie przy ul. Niemierzyńskiej

EN 54-20 class	EN 54-20 compliant	possible reasons
C	Yes	
B	Yes	
A	Yes	

Project name:	System ssący - serwerownia B S.3
Project build date:	2013-09-06 14:52:57
Fan level:	III
Ambient temperature [°C]	20
Ambient pressure [hPa]	950

	Tube network I	Tube network II
Maximum smoke sensor sensitivity according EN 54-20 class C	0.554	--
Maximum smoke sensor sensitivity according EN 54-20 class B	0.096	--
Maximum smoke sensor sensitivity according EN 54-20 class A	0.033	--
Maximum transport time [s]	17	--
Overall sampling tube length [m]	20.75	--
Number of sampling points	12	--

Sketch of tube network:



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Part	Description	RL	TL	S[C]	S[B]	S[A]	P	FI	ø	t	L-cap	Comment:
	(ASD) ASD 535		0.00					0.77		0		
A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.80	1.80				242	0.77		0		
A2	(BE 25 PVC) Bend 90° D=25 mm PVC		1.80									
A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.70	3.50									
A4	(BE 25 PVC) Bend 90° D=25 mm PVC		3.50									
A5	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	5.50									
A6	(TP 25 PVC) T-piece D=25 mm PVC		5.50									
A6.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	6.15									
A6.A2	(TP 25 PVC) T-piece D=25 mm PVC		6.15									
A6.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	6.80									
A6.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		6.80									
A6.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	7.45									
A6.A2.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		7.45									
A6.A2.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	8.10									
A6.A2.A2.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		8.10									
A6.A2.A2.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	8.75									
A6.A2.A2.A2.A2.A2	(BE 25 PVC) Bend 90° D=25 mm PVC		8.75									
A6.A2.A2.A2.A2.A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	10.75									
A6.A2.A2.A2.A2.A3 - 1	-1- Sampling point / clip	0.50	9.25	6.670	1.160	0.400	221	0.06	2.00	10		
A6.A2.A2.A2.A2.A3 - 2	-2- Sampling point / clip	1.30	10.55	6.670	1.160	0.400	221	0.06	2.50	17		
A6.A2.A2.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	10.10									
A6.A2.A2.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	8.60	6.670	1.160	0.400	221	0.06	2.00	7		
A6.A2.A2.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	9.90	6.670	1.160	0.400	221	0.06	2.50	15		
A6.A2.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	9.45									
A6.A2.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	7.95	6.660	1.160	0.400	221	0.06	2.00	6		
A6.A2.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	9.25	6.670	1.160	0.400	221	0.06	2.50	14		
A6.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	8.80									
A6.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	7.30	6.650	1.160	0.390	222	0.06	2.00	6		
A6.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	8.60	6.660	1.160	0.390	222	0.06	2.50	13		
A6.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	8.15									
A6.A2.B1 - 1	-1- Sampling point / clip	0.50	6.65	6.640	1.160	0.390	223	0.06	2.00	5		
A6.A2.B1 - 2	-2- Sampling point / clip	1.30	7.95	6.640	1.160	0.390	223	0.06	2.50	12		
A6.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	7.50									
A6.B1 - 1	-1- Sampling point / clip	0.50	6.00	6.620	1.150	0.390	224	0.06	2.00	5		
A6.B1 - 2	-2- Sampling point / clip	1.30	7.30	6.620	1.150	0.390	224	0.06	2.50	12		
RL: Relative length of this part (distance to previous SP or bend) [m] TL: Total length of the part end to the ASD [m] S[C]: smoke sensitivity [%/m] for this sampling hole, when the smoke sensor alarm level is chosen as proposed in this report. S[B]: smoke sensitivity [%/m] for this sampling hole, when the smoke sensor alarm level is chosen as proposed in this report. S[A]: smoke sensitivity [%/m] for this sampling hole, when the smoke sensor alarm level is chosen as proposed in this report. P: Pressure [Pa] FI: airflow [Liter/s] of this sampling point t: transport time to the ASD [s]												

Part	Description	RL	TL	S[C]	S[B]	S[A]	P	FI	ø	t	L-cap	Comment:
L-cap: Length of the capillary / stub [m]												



Material list:

Part	Number	Length [m]	Rod length [m]	Number of rods	Comment:
(ASD) ASD 535	1				
(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	14	20.75			
(SO 25 PVC) Socket D=25 mm PVC	6				
(BE 25 PVC) Bend 90° D=25 mm PVC	3				
(TP 25 PVC) T-piece D=25 mm PVC	5				
(EC 25 PVC) End cap D=25 mm PVC	6				
(CLIP 2.0 PA) Sampling hole clip d=2.0 mm red PA	6				
(CLIP 2.5 PA) Sampling hole clip d=2.5 mm red PA	6				
(PC 25 PP) Pipe clamp type Goema halogen-free	21				