

Project report: System ssący - serwerownia C S.4



System provider:

Company:
Address:
Town:
Phone:

Customer:

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

Comment:

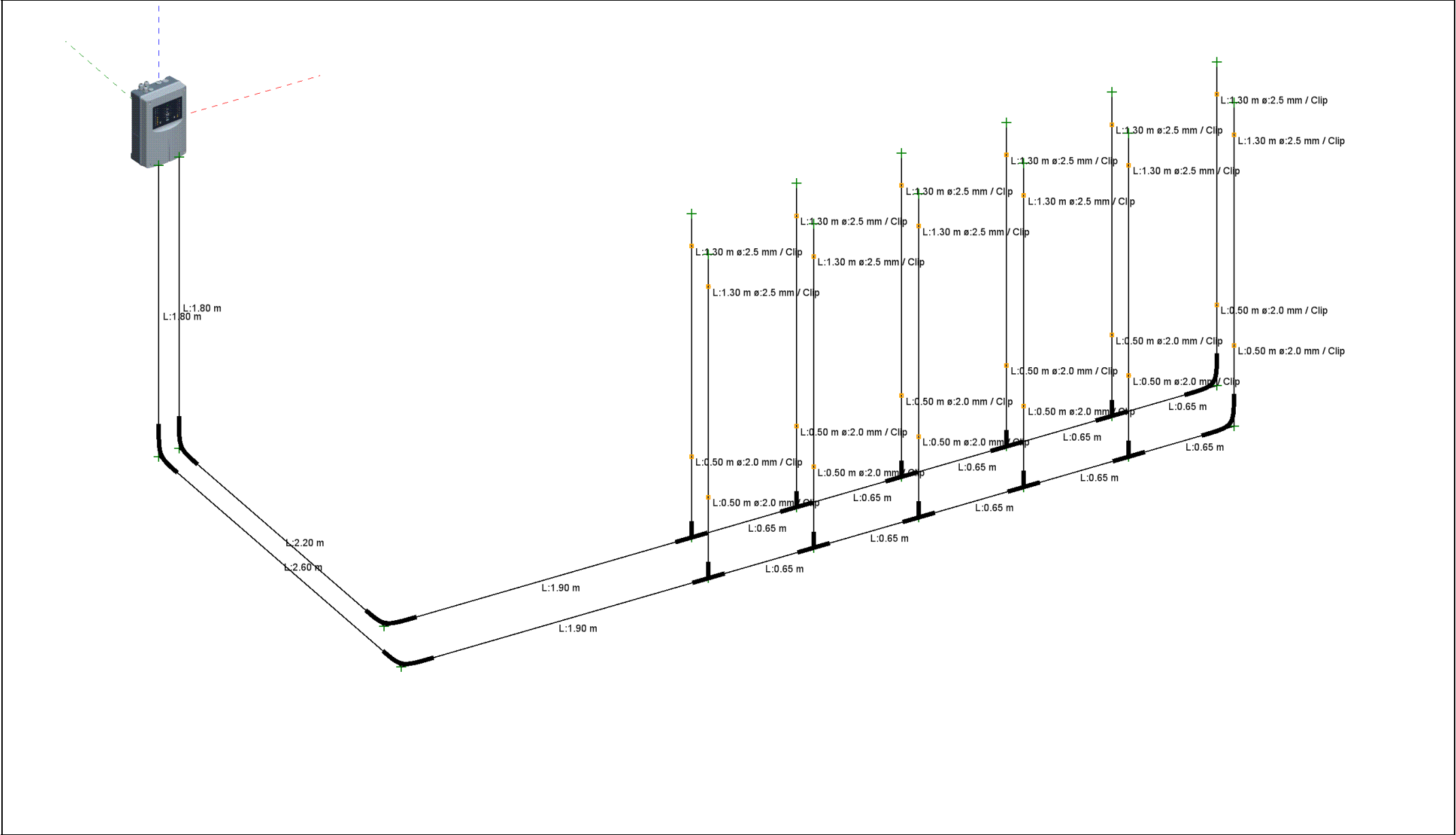
Budowa i wyposażenie I etapu POMERANIA TECHNOPARK w Szczecinie przy ul. Niemierzyńskiej

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

Project name:	System ssący - serwerownia C S.4
Project build date:	2013-09-06 14:56:41
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	0.554
Maximum smoke sensor sensitivity according EN 54-20 class B	0.096	0.096
Maximum smoke sensor sensitivity according EN 54-20 class A	0.033	0.033
Maximum transport time [s]	19	19
Overall sampling tube length [m]	21.55	21.15
Number of sampling points	12	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					1.41		0		
A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.80	1.80				207	0.71		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	2.60	4.40									
A4	(BE 25 PVC) Bend 90° D=25 mm PVC		4.40									
A5	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.90	6.30									
A6	(TP 25 PVC) T-piece D=25 mm PVC		6.30									
A6.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	6.95									
A6.A2	(TP 25 PVC) T-piece D=25 mm PVC		6.95									
A6.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	7.60									
A6.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		7.60									
A6.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	8.25									
A6.A2.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		8.25									
A6.A2.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	8.90									
A6.A2.A2.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		8.90									
A6.A2.A2.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	9.55									
A6.A2.A2.A2.A2.A2	(BE 25 PVC) Bend 90° D=25 mm PVC		9.55									
A6.A2.A2.A2.A2.A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	11.55									
A6.A2.A2.A2.A2.A3 - 1	-1- Sampling point / clip	0.50	10.05	6.670	1.160	0.400	186	0.06	2.00	11		
A6.A2.A2.A2.A2.A3 - 2	-2- Sampling point / clip	1.30	11.35	6.670	1.160	0.400	186	0.06	2.50	19		
A6.A2.A2.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	10.90									
A6.A2.A2.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	9.40	6.670	1.160	0.400	186	0.06	2.00	9		
A6.A2.A2.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	10.70	6.670	1.160	0.400	186	0.06	2.50	16		
A6.A2.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	10.25									
A6.A2.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	8.75	6.660	1.160	0.400	187	0.06	2.00	7		
A6.A2.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	10.05	6.670	1.160	0.400	187	0.06	2.50	15		
A6.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	9.60									
A6.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	8.10	6.650	1.160	0.390	187	0.06	2.00	7		
A6.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	9.40	6.660	1.160	0.390	187	0.06	2.50	15		
A6.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	8.95									
A6.A2.B1 - 1	-1- Sampling point / clip	0.50	7.45	6.640	1.160	0.390	188	0.06	2.00	6		
A6.A2.B1 - 2	-2- Sampling point / clip	1.30	8.75	6.640	1.160	0.390	188	0.06	2.50	14		
A6.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	8.30									
A6.B1 - 1	-1- Sampling point / clip	0.50	6.80	6.620	1.150	0.390	189	0.06	2.00	6		
A6.B1 - 2	-2- Sampling point / clip	1.30	8.10	6.620	1.150	0.390	189	0.06	2.50	13		
B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.80	1.80				207	0.71		0		
B2	(BE 25 PVC) Bend 90° D=25 mm PVC		1.80									
B3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.20	4.00									
B4	(BE 25 PVC) Bend 90° D=25 mm PVC		4.00									
B5	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.90	5.90									
B6	(TP 25 PVC) T-piece D=25 mm PVC		5.90									

Part	Description	RL	TL	S[C]	S[B]	S[A]	P	FI	ø	t	L-cap	Comment:
B6.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	6.55									
B6.A2	(TP 25 PVC) T-piece D=25 mm PVC		6.55									
B6.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	7.20									
B6.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		7.20									
B6.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	7.85									
B6.A2.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		7.85									
B6.A2.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	8.50									
B6.A2.A2.A2.A2	(TP 25 PVC) T-piece D=25 mm PVC		8.50									
B6.A2.A2.A2.A2.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.65	9.15									
B6.A2.A2.A2.A2.A2	(BE 25 PVC) Bend 90° D=25 mm PVC		9.15									
B6.A2.A2.A2.A2.A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	11.15									
B6.A2.A2.A2.A2.A3 - 1	-1- Sampling point / clip	0.50	9.65	6.670	1.160	0.400	187	0.06	2.00	11		
B6.A2.A2.A2.A2.A3 - 2	-2- Sampling point / clip	1.30	10.95	6.670	1.160	0.400	187	0.06	2.50	19		
B6.A2.A2.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	10.50									
B6.A2.A2.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	9.00	6.670	1.160	0.400	187	0.06	2.00	8		
B6.A2.A2.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	10.30	6.670	1.160	0.400	187	0.06	2.50	16		
B6.A2.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	9.85									
B6.A2.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	8.35	6.660	1.160	0.400	188	0.06	2.00	7		
B6.A2.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	9.65	6.670	1.160	0.400	188	0.06	2.50	15		
B6.A2.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	9.20									
B6.A2.A2.B1 - 1	-1- Sampling point / clip	0.50	7.70	6.650	1.160	0.390	188	0.06	2.00	6		
B6.A2.A2.B1 - 2	-2- Sampling point / clip	1.30	9.00	6.660	1.160	0.390	188	0.06	2.50	14		
B6.A2.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	8.55									
B6.A2.B1 - 1	-1- Sampling point / clip	0.50	7.05	6.640	1.160	0.390	189	0.06	2.00	6		
B6.A2.B1 - 2	-2- Sampling point / clip	1.30	8.35	6.640	1.160	0.390	189	0.06	2.50	14		
B6.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	7.90									
B6.B1 - 1	-1- Sampling point / clip	0.50	6.40	6.620	1.150	0.390	190	0.06	2.00	5		
B6.B1 - 2	-2- Sampling point / clip	1.30	7.70	6.620	1.150	0.390	190	0.06	2.50	13		
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] 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	28	42.70			
(SO 25 PVC) Socket D=25 mm PVC	11				
(BE 25 PVC) Bend 90° D=25 mm PVC	6				
(TP 25 PVC) T-piece D=25 mm PVC	10				
(EC 25 PVC) End cap D=25 mm PVC	12				
(CLIP 2.0 PA) Sampling hole clip d=2.0 mm red PA	12				
(CLIP 2.5 PA) Sampling hole clip d=2.5 mm red PA	12				
(PC 25 PP) Pipe clamp type Goema halogen-free	43				