

# Project report:



Company: PRD Fire Solutions  
Address: Rejowska 99  
Town: 26-110 Skarzysko-Kamienna  
Phone:

Customer:

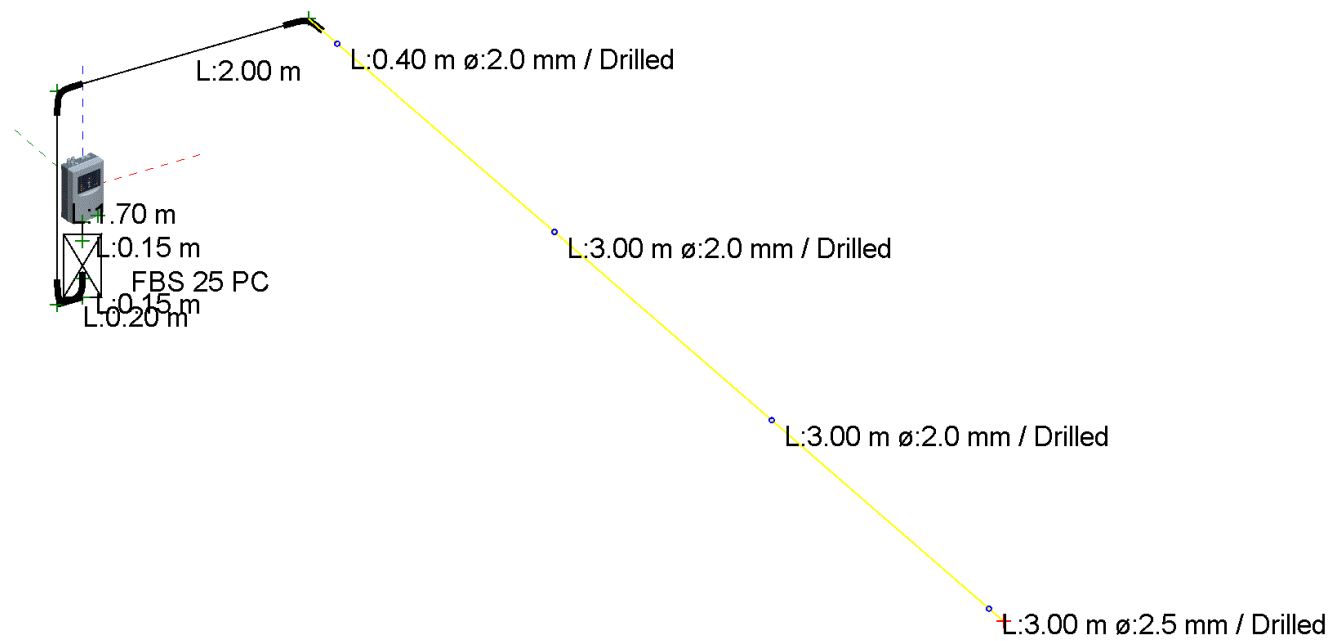
## Comment:

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

Project name:	
Project build date:	01/08/2017 15:23:24
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	1.332	--
Maximum smoke sensor sensitivity according EN 54-20 class B	0.232	--
Maximum smoke sensor sensitivity according EN 54-20 class A	0.079	--
Maximum transport time [s]	37	--
Overall sampling tube length [m]	14.30	--
Number of sampling points	4	--

Sketch of tube network:



Z:\@PRD FS\Projekty\Muzeum Historii Fotografii w Krakowie\Projekt wykonawczy\Obliczenia ASD\0.23 Magazyn.report.gif

Part	Description	RL	TL	S[C]	S[B]	S[A]	P	FI	ø	t	L-cap	Comment:
	(ASD) ASD 535		0.00					0.27		0		
A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.15	0.15				256	0.27		0		
A2	(FBS 25 PC) Filter-box small D=25 mm PC		0.65									
A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.15	0.80									
A4	(BE 25 PVC) Bend 90° D=25 mm PVC		0.80									
A5	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.20	1.00									
A6	(BE 25 PVC) Bend 90° D=25 mm PVC		1.00									
A7	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.70	2.70									
A8	(BE 25 PVC) Bend 90° D=25 mm PVC		2.70									
A9	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	4.70									
A10	(BE 25 PVC) Bend 90° D=25 mm PVC		4.70									
A11	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	9.60	14.30									
A11 - 1	-1- Sampling point / drilled	0.40	5.10	6.640	1.160	0.390	252	0.07	2.00	8		
A11 - 2	-2- Sampling point / drilled	3.00	8.10	6.660	1.160	0.400	251	0.07	2.00	14		
A11 - 3	-3- Sampling point / drilled	3.00	11.10	6.670	1.160	0.400	250	0.07	2.00	21		
A11 - 4	-4- Sampling point / drilled	3.00	14.10	6.670	1.160	0.400	250	0.07	2.50	37		
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:**

<b>Part</b>	<b>Number</b>	<b>Length [m]</b>	<b>Rod length [m]</b>	<b>Number of rods</b>	<b>Comment:</b>
(ASD) ASD 535	1				
(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	6	13.80			
(SO 25 PVC) Socket D=25 mm PVC	4				
(FBS 25 PC) Filter-box small D=25 mm PC	1				
(BE 25 PVC) Bend 90° D=25 mm PVC	4				
(EC 25 PVC) End cap D=25 mm PVC	1				
(PC 25 PP) Pipe clamp type Goema halogen-free	15				