

Project report:



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

Customer:

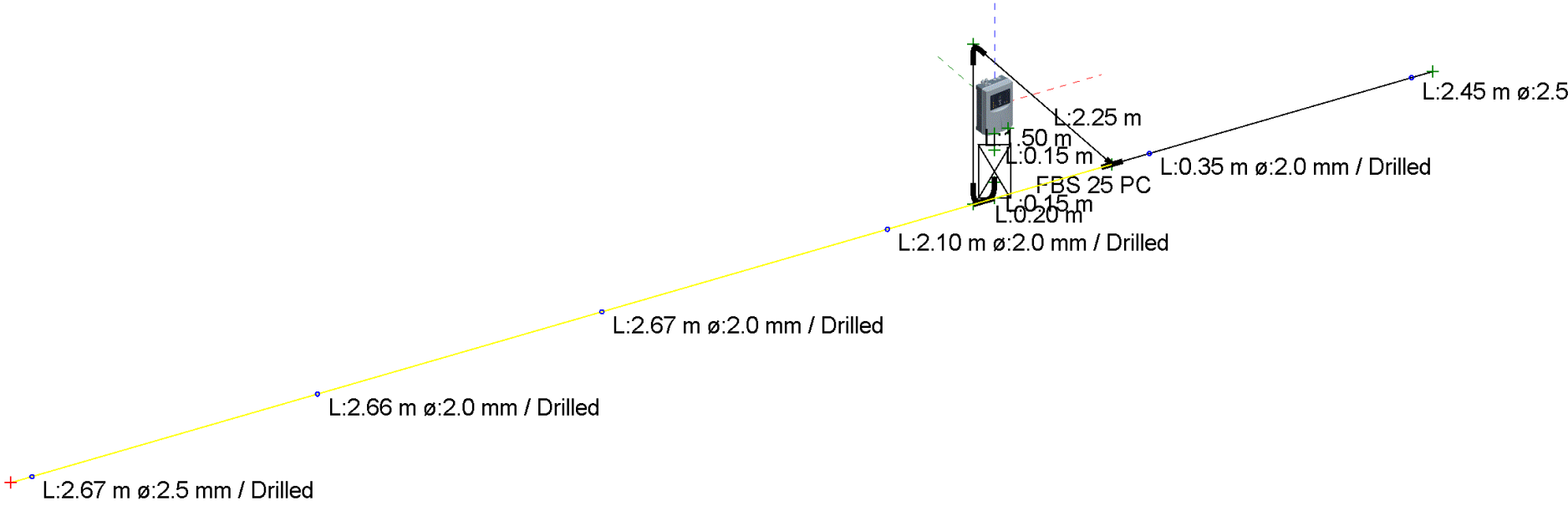
Comment:

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

Project name:	
Project build date:	10/08/2017 15:14:23
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	0.887	--
Maximum smoke sensor sensitivity according EN 54-20 class B	0.154	--
Maximum smoke sensor sensitivity according EN 54-20 class A	0.053	--
Maximum transport time [s]	34	--
Overall sampling tube length [m]	18.05	--
Number of sampling points	6	--

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					0.40		0		
A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.15	0.15				253	0.40		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	1.50	2.50									
A8	(BE 25 PVC) Bend 90° D=25 mm PVC		2.50									
A9	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.25	4.75									
A10	(TP 25 PVC) T-piece D=25 mm PVC		4.75									
A10.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	10.30	15.05									
A10.A1 - 1	-1- Sampling point / drilled	2.10	6.85	6.640	1.160	0.390	244	0.07	2.00	8		
A10.A1 - 2	-2- Sampling point / drilled	2.67	9.52	6.660	1.160	0.400	243	0.07	2.00	13		
A10.A1 - 3	-3- Sampling point / drilled	2.66	12.18	6.670	1.160	0.400	243	0.07	2.00	20		
A10.A1 - 4	-4- Sampling point / drilled	2.67	14.85	6.670	1.160	0.400	243	0.07	2.50	34		
A10.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	3.00	7.75									
A10.B1 - 1	-1- Sampling point / drilled	0.35	5.10	6.630	1.150	0.390	245	0.07	2.00	6		
A10.B1 - 2	-2- Sampling point / drilled	2.45	7.55	6.630	1.150	0.390	245	0.07	2.50	19		
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	7	17.55			
(SO 25 PVC) Socket D=25 mm PVC	5				
(FBS 25 PC) Filter-box small D=25 mm PC	1				
(BE 25 PVC) Bend 90° D=25 mm PVC	3				
(TP 25 PVC) T-piece D=25 mm PVC	1				
(EC 25 PVC) End cap D=25 mm PVC	2				
(PC 25 PP) Pipe clamp type Goema halogen-free	19				