

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 15:01:20
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	0.667	--
Maximum smoke sensor sensitivity according EN 54-20 class B	0.116	--
Maximum smoke sensor sensitivity according EN 54-20 class A	0.040	--
Maximum transport time [s]	22	--
Overall sampling tube length [m]	20.70	--
Number of sampling points	8	--

Technical drawing of a mechanical assembly, likely a bracket or support structure, showing dimensions and material specifications. The drawing includes a central vertical component and two side arms, each with a horizontal section and a diagonal section.

Dimensions and Specifications:

- Top Section:**
 - Horizontal section: L:2.00 m, L:0.15 m, L:0.20 m ø:2.0 mm / Drilled
 - Diagonal section: L:0.80 m, L:0.70 m ø:2.0 mm / Drilled, L:2.10 m ø:2.5 mm / Drilled
- Middle Section:**
 - Horizontal section: L:1.30 m, L:2.10 m ø:2.5 mm / Drilled
- Bottom Section:**
 - Horizontal section: L:2.00 m, L:0.20 m ø:2.0 mm / Drilled
 - Diagonal section: L:0.80 m, L:0.70 m ø:2.0 mm / Drilled, L:2.10 m ø:2.5 mm / Drilled

Material and Notes:

- Material: FB 125 PC
- Note: L:0.15 m

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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					0.54		0		
A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.15	0.15				250	0.54		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	(TP 25 PVC) T-piece D=25 mm PVC		1.00									
A6.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.30	2.30									
A6.A2	(BE 25 PVC) Bend 90° D=25 mm PVC		2.30									
A6.A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.80	3.10									
A6.A4	(TP 25 PVC) T-piece D=25 mm PVC		3.10									
A6.A4.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.70	3.80									
A6.A4.A2	(BE 25 PVC) Bend 90° D=25 mm PVC		3.80									
A6.A4.A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.50	6.30									
A6.A4.A3 - 1	-1- Sampling point / drilled	0.20	4.00	6.660	1.160	0.400	242	0.07	2.00	8		
A6.A4.A3 - 2	-2- Sampling point / drilled	2.10	6.10	6.670	1.160	0.400	242	0.07	2.50	19		
A6.A4.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	5.10									
A6.A4.B2	(BE 25 PVC) Bend 90° D=25 mm PVC		5.10									
A6.A4.B3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.50	7.60									
A6.A4.B3 - 1	-1- Sampling point / drilled	0.20	5.30	6.670	1.160	0.400	242	0.07	2.00	11		
A6.A4.B3 - 2	-2- Sampling point / drilled	2.10	7.40	6.670	1.160	0.400	242	0.07	2.50	22		
A6.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	1.40	2.40									
A6.B2	(BE 25 PVC) Bend 90° D=25 mm PVC		2.40									
A6.B3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.80	3.20									
A6.B4	(TP 25 PVC) T-piece D=25 mm PVC		3.20									
A6.B4.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.70	3.90									
A6.B4.A2	(BE 25 PVC) Bend 90° D=25 mm PVC		3.90									
A6.B4.A3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.50	6.40									
A6.B4.A3 - 1	-1- Sampling point / drilled	0.20	4.10	6.670	1.160	0.400	242	0.07	2.00	8		
A6.B4.A3 - 2	-2- Sampling point / drilled	2.10	6.20	6.670	1.160	0.400	242	0.07	2.50	19		
A6.B4.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.00	5.20									
A6.B4.B2	(BE 25 PVC) Bend 90° D=25 mm PVC		5.20									
A6.B4.B3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.50	7.70									
A6.B4.B3 - 1	-1- Sampling point / drilled	0.20	5.40	6.670	1.160	0.400	242	0.07	2.00	11		
A6.B4.B3 - 2	-2- Sampling point / drilled	2.10	7.50	6.670	1.160	0.400	242	0.07	2.50	22		
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	15	20.20			
(SO 25 PVC) Socket D=25 mm PVC	6				
(FBS 25 PC) Filter-box small D=25 mm PC	1				
(BE 25 PVC) Bend 90° D=25 mm PVC	7				
(TP 25 PVC) T-piece D=25 mm PVC	3				
(EC 25 PVC) End cap D=25 mm PVC	4				
(PC 25 PP) Pipe clamp type Goema halogen-free	21				