

09: 14 Monday 20 February 2017

Project name : 2 heads on top floor of house
 Project no/ref : Project number/ref
 Client : Client
 Address : Address
 Area (MU/MF) : Most Unfavourable
 Designer : Alan Ashfield
 Company/Address : Address
 Other documents : Other Documents
 Comments : Comments

Category : 1 = 2 heads at 2.04 mm/min for 10 min duration
 Pipe Type : CPVC to ASTM F442 HW "C"=150 Sizes=20, 25, 32, 40, 50 & 65mm
 Water Supply : System demand based on minimum head pressure
 Source Duty : 62.5 L/min at 1.432 bars
 Area of Coverage : 30.00 sq.m
 NEW3RD Data File Name : D:\new3rd\AADemo1.3rd

OPERATING SPRINKLER HEADS

Node no	"K" factor	Flow L/min	Area sq.m	Density mm/min	Pressure bars	Height m	Pipe mm	Reference or Location
163	43.2	31.9	15.00	2.12	0.544	6.600	20	Bed1
173	43.2	30.6	15.00	2.04	0.502	6.600	20	Bed2

HYDRAULICALLY SIGNIFICANT PIPES

Start node	End node	Size mm	Bore mm	Flow L/min	Length m	Direction @slope	Fitting at start node	Eq. len m	Vel m/s	Static height m	Height m	Pressures in bars		
												Start	Frict	End
100	110	32	35.40	62.5	1.000	N			1.1	0.000	0.000	1.432	0.003	1.429
110	120	32	35.40	62.5	3.400	U	90° el bow	2.44	1.1	3.400	3.400	1.429	0.020	1.075
120	130	25	28.00	62.5	3.400	U			1.7	3.400	6.800	1.075	0.036	0.706
130	140	25	28.00	62.5	1.750	S	90° el bow	2.13	1.7	0.000	6.800	0.706	0.042	0.664
140	150	25	28.00	62.5	3.700	S			1.7	0.000	6.800	0.664	0.040	0.625
150	160	25	28.00	62.5	1.900	E	90° el bow	2.13	1.7	0.000	6.800	0.625	0.043	0.581
160	170	20	22.20	30.6	4.000	E			1.3	0.000	6.800	0.581	0.035	0.546
160	161	20	22.20	31.9	0.200	U	Tee or cross	0.91	1.4	0.200	7.000	0.581	0.011	0.551
161	162	20	22.20	31.9	0.200	S	90° el bow	2.13	1.4	0.000	7.000	0.551	0.022	0.529
162	163	20	22.20	31.9	0.400	D	90° el bow	2.13	1.4	-0.400	6.600	0.529	0.024	0.544
170	171	20	22.20	30.6	0.200	U	90° el bow	2.13	1.3	0.200	7.000	0.546	0.021	0.506
171	172	20	22.20	30.6	0.200	S	90° el bow	2.13	1.3	0.000	7.000	0.506	0.021	0.485
172	173	20	22.20	30.6	0.400	D	90° el bow	2.13	1.3	-0.400	6.600	0.485	0.022	0.502

For more information about New3RD [22.05.15] by Alan Ashfield, please visit <https://www.freehc.net>