```
            Project name = Simple Example
       Address / location = Somewhere over the rainbow
           Project number = 42
    Hazard classification = High
          Area reference = Most Remote
      Installation number = 1
        Drawing number(s) = AA/AA/1
    Issue dates/number(s) = -------
                 Designer = Alan Ashfield
                 Comments = No comments
       Design authority = EN12845 Rules

      Installer/designer = Your Company Name
                           Your Address




          Telephone no(s) = Tel No
                FAX no(s) = Fax No
                Reference = Alan on ACE2 to doPDF v6
         Data file name = D:\VSHP\TEST001.3AA
     All pages checked by

     Sprinklers operating =     4
        Area of operation =    36.00  sq.m
        Max area per head =     9.000 sq.m
         Min head density =    10.000 mm/min at node   133
        Min head pressure =     1.266 bars   at node   133
        Max head pressure =     1.308 bars   at node   142
          Max head height =     5.000 m
                    Pipes =    10
             Min pipe size =    32     mm
        Max pressure drop =     0.071 bars   in pipe   141   142
             Max velocity =     2.99  m/s    in pipe   141   142
     Hydrants / hosereels =     0     L/min
       Volume of pipework =     0.581 cu.m
Actual density of discharge =    10.08  mm/min over 9.000 sq.m
    Four most remote heads =   132    133    142    143

                SOURCE DUTY =   363.0   L/min at 1.950 bars [node 100]
```

OPERATING SPRINKLER HEADS AND HYDRANTS

Node no	Size mm	"K" factor	Flows in L/min Min	Actual	+%	Area sq.m	Density mm/min Min	Actual	Pipe mm	Height m	Pressures in bars Min	Actual
132	15.0	80.00	90.0	91.0	1	9.000	10.00	10.11	32	5.000	0.500	1.294
133	15.0	80.00	90.0	90.0	0	9.000	10.00	10.00	32	5.000	0.500	1.266
142	15.0	80.00	90.0	91.5	2	9.000	10.00	10.17	32	5.000	0.500	1.308
143	15.0	80.00	90.0	90.5	1	9.000	10.00	10.06	32	5.000	0.500	1.280

HYDRAULICALLY SIGNIFICANT PIPES

Nodes Start	End	Size + Type mm ref	"C"	Flow L/min	Length m	Fittings +options	Equiv len m	Vel m/s	Static m	Height end m	Pressures in bars Start	Frict	End
100	110	100 MW	120	363.0	1.500U	GV	0.81	0.70	1.500	1.500	1.950	0.002	1.801
110	120	100 MW	120	363.0	3.000U	SV	5.07	0.70	3.000	4.500	1.801	0.005	1.502
120	130	100 MW	120	363.0	60.000	W	1.43	0.70		4.500	1.502	0.041	1.461
130	131	40 MW	120	181.0	0.500U	T	2.44	2.19	0.500	5.000	1.461	0.048	1.364
131	132	32 MW	120	181.0	1.000	E	1.04	2.97		5.000	1.364	0.070	1.294
132	133	32 MW	120	90.0	3.000			1.48		5.000	1.294	0.028	1.266
130	140	65 MW	120	182.0	3.000			0.82		4.500	1.461	0.005	1.456
140	141	40 MW	120	182.0	0.500U	E	1.22	2.20	0.500	5.000	1.456	0.028	1.379
141	142	32 MW	120	182.0	1.000	E	1.04	2.99		5.000	1.379	0.071	1.308
142	143	32 MW	120	90.5	3.000			1.48		5.000	1.308	0.028	1.280

KEY TO FITTINGS AND LIST OF PIPEWORK QUANTITIES

E = Screwed elbow, W = Welded elbow, H = 45deg elbow, T = Branch tee/cross, J = Through tee
GV = Gate valve, SV = Swinging valve, MV = Mushroom valve, BV = Butterfly valve, GL = Globe valve

MW = Medium Weight steel [BS1387] Total = 76.50 m

Sizes	=	32	40	65	100 mm
Bores	=	35.97	41.86	68.67	105.14 mm
Lengths	=	8.00	1.00	3.00	64.50 m