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GB50016—2006

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Code of Design on Building Fire Protection and Prevention

2006 07 12

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Code of Design on Building Fire Protection and Prevention

GB50016-2006

2006 1 2 1

2006



[1998]94

300381

110

Johns Manville

Huntsman

Hilti



8.2	.....	44
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2.0.1 Fire resistance rating

2.0.2 Non-combustible component

2.0.3

2.0.18	Enclosed staircase		
2.0.19	Smoke-proof staircase		
2.0.20	Fire compartment		
2.0.21	Fire separation distance		
2.0.22	Smoke bay		
2.0.23	Full water spout		
	90%		38cm

3

3.1

3.1.1

3.1.1

3.1.1

	1	28	
	2	10%	
	3		
	4		
	5		
	6		
	7		

1 28 60

2 10%

3

4

5

6

LÒ`2PrÅ€#† W

3.1.3

3.1.3

	1	28
	2	10%
		10%
	3	
	4	
	5	
	6	
	1	28 60
	2	10%
	3	
	4	
	5	
	6	
	1	60
	2	

' "% (

3.1.5

%#(

3.2

3.2.1

3.2.1

3.2.1

h

		3.00	3.00	3.00
		3.00	2.50	2.00
				0.50





3.3.2

3.3.2

			m <sup>2</sup>								
	3 4		1	180	60	—	—	—	—	—	
	1 2 5 6		1	750	250	—	—	—	—	—	
	1 3		3	2000	500	900	300	—	—	—	
	4		1	500	250	—	—	—	—	—	
	2 5		5	2800	700	1500	500	—	—	—	
	6		1	900	300	—	—	—	—	—	
	1		5	4000	1000	2800	700	—	—	150	
			1	1200	400	—	—	—	—	—	
	2			6000	1500	4800	1200	4000	1000	300	
			3	2100	700	1200	400	—	—	—	
					3000		1500	4800	1200	500	
			3	3000	1000	1500	500	—	—	—	
			1	2100	700	—	—	—	—	—	
						2000	6000	1500		1000	
			3	3000	1000	2100	700	—	—	—	
			1	2100	700	—	—	—	—	—	

1

2

GB50074

3

12000m<sup>2</sup>

4

1.0

5

12000m<sup>2</sup>

3000m<sup>2</sup>



3.3.16

3.3.17

3.3.18

### 3.4

3.4.1

3.4.1

3.4.1

m

		12.0	12.0	12.0	14.0	16.0	13.0	25.0		
		12.0	10.0	10.0	12.0	14.0	13.0	25.0		
		12.0	10.0	10.0	12.0	14.0	13.0	10.0	12.0	14.0
		14.0	12.0	12.0	14.0	16.0	15.0	12.0	14.0	16.0
		16.0	14.0	14.0	16.0	18.0	17.0	14.0	16.0	18.0
		12.0	10.0	10.0	12.0	14.0	13.0	6.0	7.0	9.0
		14.0	12.0	12.0	14.0	16.0	15.0	7.0	8.0	10.0
		16.0	14.0	14.0	16.0	18.0	17.0	9.0	10.0	12.0
		13.0	13.0	13.0	15.0	17.0	13.0	13.0	15.0	17.0
t	5 10	25.0	25.0	12.0	15.0	20.0	12.0	15.0	20.0	25.0
	10 50			15.0	20.0	25.0	15.0	20.0	25.0	30.0
	50			20.0	25.0	30.0	20.0	25.0	30.0	35.0

1

2

50.0m

2.0m

6.0m

3 4

3

4.0m

5%

25%

4

1.00h

7.5.3

6.0m

4.0m

5

6  
 3.4.2 50.0m  
 30.0m 11.2.1

4  
 3.4.3 3.4.3  
 3.4.3 3.4.3  
 m

	30.0	20.0	15.0	10.0	5.0

**3.4.4**  
 4  
 13.0m

3.4.5  
 % 15.0m  
 & % \$\$h  
 (" \$m

3.4.6  
 3.4.1  
 15m<sup>3</sup> 4.0m

3.4.7 U 3.4.1  
 3.3.1  
 6.0m

3.4.8 3.3.1

10000 m<sup>2</sup> 7.0m  
 4.0m 7.0m 6.0m  
 3.4.1

3.4.9

3.4.10

GB50156

3.4.11

35 500kV

10MVA

5t

3.4.1

3.5.1

3.4.12

5.0m

3.5

3.5.1

3.5.1

11.2.1

3.5.1

3.5.1

m

		t			
		3 4		1 2 5 6	
		5	5	10	10
		50.0			
		20.0			
		30.0	40.0	25.0	30.0
		15.0	20.0	12.0	15.0
		20.0	25.0	15.0	20.0
		25.0	30.0	20.0	25.0
35 500kV 10MVA 5t		30.0	40.0	25.0	30.0
		40.0			
		30.0			
		20.0			
		10.0			
		5.0			

3 4

2t 1 2 5 6

5t

12.0m

13m

3.5.2

3.5.2

3.5.2

m

		10.0	12.0	14.0	10.0	12.0	14.0	13.0	12.0
		12.0	14.0	16.0	12.0	14.0	16.0	15.0	14.0
		14.0	16.0	18.0	14.0	16.0	18.0	17.0	16.0
		13.0	15.0	17.0	13.0	15.0	17.0	13.0	13.0
		10.0	12.0	14.0	6.0	7.0	9.0	13.0	25.0
		12.0	14.0	16.0	7.0	8.0	10.0	15.0	
		14.0	16.0	18.0	9.0	10.0	12.0	17.0	

1

2 Om

2

3 3 2

3

6

25. Om

30 Om

3 5 1

3.5.3

%

% "\$m

&

% "\$h

(" \$m

' ") "(

' ") "(

' ") "(

m

	W								
t	W ( \$\$\$\$	( \$\$\$\$ W ) \$\$\$\$	W ) \$\$\$\$	W ) \$\$\$\$	W ) \$\$\$\$	W ) \$\$\$\$			
) \$ \$ W % \$ \$ \$ \$	% " \$	& " \$	& " \$	& " \$	& " \$	& " \$	% " \$	% " \$	& " \$
% \$ \$ \$ \$ W ( \$ \$ \$ \$	% " \$	& " \$	& " \$	& " \$	& " \$	& " \$	% " \$	& " \$	& " \$
( \$ \$ \$ \$ W ) \$ \$ \$ \$	& " \$						& " \$	& " \$	' \$ " \$
W ) \$ \$ \$ \$							& " \$	' \$ " \$	
W ) \$ \$ \$ \$	& " \$	& " \$	& " \$	& " \$	& " \$	& " \$	& " \$	& " \$	
W ) \$ \$ \$ \$							& " \$	' \$ " \$	

%

&

% \$ \$ \$ \$ t

3.5.5

5.0m

3.6

3.6.1

3.6.2

3.6.3

3

3

$$A = 10CV^{2/3}$$

3.6.3

A	m <sup>2</sup>
V	m <sup>3</sup>
C	1000m

3.6.8

3.6.9

3.00h

3.6.10

3.6.11

3.6.12

3.6.3

3.6.13

3.7

3.7.1

2

5.0m

3.7.2

2

1

1

100m<sup>2</sup>

5

2

150m<sup>2</sup>

10

3

250m<sup>2</sup>

20

4

400m<sup>2</sup>

30

5

50m<sup>2</sup>

15

3.7.3

1

3.7.4

3.7.4

3.7.4

m

		30.0	25.0		
		75.0	50.0	30.0	
		80.0	60.0	40.0	30.0
		60.0	40.0		
		60.0	50.0	50.0	45.0
		50.0			



3.8.8

2.00h

3.8.9

32.0m

7.4.10



4

4.1

4.1.1

4.1.2

4.1.3

1.0m

4.1.4

4.1.5

11.2.1

4.2

4.2.1

4.2.1

4.2.1

m

	V(m <sup>3</sup> )	1 V 50	12.0	15.0	20.0	30.0
		50 V 200	15.0	20.0	25.0	35.0
		200 V 1000	20.0	25.0	30.0	40.0
		1000 V 5000	25.0	30.0	40.0	50.0
		5 V 250	12.0	15.0	20.0	24.0
		250 V 1000	15.0	20.0	25.0	28.0
		1000 V 5000	20.0	25.0	30.0	32.0
		5000 V 25000	25.0	30.0	40.0	40.0

1

1m<sup>3</sup>

5m<sup>3</sup>

2

10.0m

3

25%

25.0m

25%

4

120

25%



1  
 4  
 2  
 3  
 3.0m  
 4  
 0.2m 1.0 2.2m  
 5  
 6  
 4.2.6 120

(" &" + (" &" + m

		% " \$	& "\$ \$
		%&" \$	% " \$
		%\$ " \$	%&" \$

% %\$\$\$m )\$\$\$m  
 &)%  
 & )" \$m

4.3

4.3.1

1

2

4.3.1

25%

3

4.3.1

4.3.1

FOA

4

5

50m<sup>3</sup>

6

4.3.3

4.3.3

m

			V(m <sup>3</sup> )		
			V 1000	1000 V 50000	V 50000
			20.0	25.0	30.0
			18.0	20.0	25.0
			10.0	12.0	14.0
			12.0	14.0	16.0
			14.0	16.0	18.0

m<sup>3</sup>

10<sup>5</sup>Pa

4.3.4

4.3.3

3.0m

3m<sup>3</sup>

1

10.0m

2

3

5.0m

1m<sup>3</sup>

800m<sup>3</sup>

4.3.5

5.0m

4.3.6

4.3.6

4.3.6

(m)

	25.0	20.0	15.0	10.0	5.0

4.3.7

4.4.1

25%

(" (

4.4.1

4.4.1

		m						
V(m <sup>3</sup> )		30 V 50	50 V 200	200 V 500	500 V 1000	1000 V 2500	2500 V 5000	V 5000
V(m <sup>3</sup> )		V 20	V 50	V 100	V 200	V 400	V 1000	V 1000
		45.0	50.0	70.0	90.0	110.0	130.0	150.0
		27.0	30.0	35.0	40.0	50.0	60.0	75.0
		45.0	50.0	55.0	60.0	70.0	80.0	120.0
		40.0	45.0	50.0	55.0	65.0	75.0	100.0
		32.0	35.0	40.0	45.0	55.0	65.0	80.0
		27.0	30.0	35.0	40.0	50.0	60.0	75.0
		18.0	20.0	22.0	25.0	30.0	40.0	50.0
		22.0	25.0	27.0	30.0	40.0	50.0	60.0
		27.0	30.0	35.0	40.0	50.0	60.0	75.0
		20.0	25.0					30.0
		15.0	20.0					25.0
		11.2 1						
		30		40				
		1.5						
		60.0	70.0		80.0		100.0	
		25.0	30.0		35.0		40.0	

1

2

3

4

4.4.2

3000m<sup>3</sup>

20.0m

4.4.3

15.0m

6.0m

4.4.4

1000 300

50m<sup>3</sup>

400m<sup>3</sup>

50%

GB50028

GB50028

4.4.5

GB50028

10m<sup>3</sup>

GB50028

4.4.6

4.4.6

4.4.6

m

V(m <sup>3</sup> )	6 V 10	10 V 20	1 V 3	3 V 6
	30.0	35.0	20	25
	20.0	25.0	12	15

4.5.1

(m)

W t	10 W 5000	15.0	20.0	25.0
	5000 W 20000	20.0	25.0	30.0
W t	500 W 10000	10.0	15.0	20.0
	10000 W 20000	15.0	20.0	25.0
W t	10 W 500	10.0	15.0	20.0
	500 W 1000	15.0	20.0	25.0
	1000 W 5000	20.0	25.0	30.0
W t	10 W 5000	15.0	20.0	25.0
	5000 W 10000	20.0	25.0	30.0
	W 10000	25.0	30.0	40.0
V m <sup>3</sup>	50 V 1000	10.0	15.0	20.0
	1000 V 10000	15.0	20.0	25.0
	V 10000	20.0	25.0	30.0
W t	100 W 5000	6.0	8.0	10.0
	W 5000	8.0	10.0	12.0

25%

25.0m

50.0m

25%

(")" &

(" &" %

(")" %

4.5.3

4.5.3

4.5.3

m

	30.0	20.0	15.0	10.0	5.0



5

5.1

5.1.1

5.1.1

5.1.1

h

		3.00	3.00	3.00	3.00
		3.00	2.50	2.00	0.50
		1.00	1.00	0.50	
		2.00	2.00	1.50	0.50
		1.00	1.00	0.50	0.25
		0.75	0.50	0.50	0.25
		3.00	2.50	2.00	0.50
		2.00	1.50	1.00	0.50
		1.50	1.00	0.50	
		1.50	1.00		
		1.50	1.00	0.50	
		0.25	0.25	0.15	h-8

0.2

0.3 h

4

5.1.2

5.1.3

5.1.4

5.1.5

5.1.6

0.75h

0.25h

1.50h 1.00h

0.75h

0.25h

1

2 3 3

5.1.7

5.1.7

5.1.7

		m <sup>2</sup>	
	1.0.2	2500	1. 2. 3
	5	1200	1. 2. 2
	2	600	
		500	

1

68500

5.1.8

5.1.9

5.1.7

5.1.10

1

2

7.5.3

3

9

5.1.11

7.5.3

5.1.12

10000m<sup>2</sup>

1

2

8 9 11

3

GB50222

5.1.13

1

2

3

GB50222

2000m<sup>2</sup>

4

5

20000m<sup>2</sup>

1

2

3

GB50098

4

)"%%%(

OK OK

K

5.1.15

CK

CK

9m

1

10.0m

2

200m<sup>2</sup>

2.00h

1.00h

3

9

5.2

5.2.1

5.2.1

3

4

5.2.1

(m)

	6.0	7.0	9.0
	7.0	8.0	10.0
	9.0	10.0	12.0

1

15m

2

1.00h

3.5m

3

GB50084

7.5.3

3.5m

4

5%

25%

5

6

5.2.2

2.8MW

4t/h

5.2.1

3.4.1

10kV

3.0m

5.2.3

2500m<sup>2</sup>

4.0m

5.2.1

5.3

5.3.1

2

5.0m

5.3.2

2

1

200m<sup>2</sup>

50

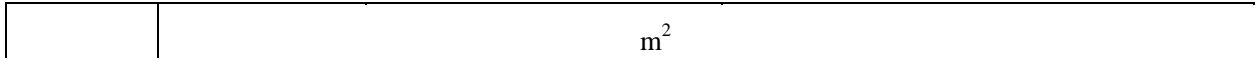
2

5.3.2

2 3

5.3.2

1



5.3.9 250 2000 2000 2

400

5.3.10 2

400 700

5.3.11 650m<sup>2</sup> 15m

2 5.3.11

2

1 2

2 6 500m<sup>2</sup>

5.3.11

		(m <sup>2</sup> )	
	3	500	100
	3	200	50
	2	200	30

5.3.12

1 2 2 2

1

1

2 30 30 500m<sup>2</sup><sub>1</sub> 1

3 50m<sup>2</sup>

2  
 5.3.13 5.0m 5.3.13  
 2.0m  
 3 4  
 15.0m  
 4 5.3.13

5.3.13 m

	25.0	20.0	—	20.0	15.0	—
	35.0	30.0		20.0	15.0	
	35.0	30.0	—	22.0	20.0	—
	40.0	35.0	25.0	22.0	20.0	15.0
30.0m						

1 5.0m  
 2 25%  
 3

5.3.14

0.9m 1.1m  
 6 1.0m  
 5.3.15 1.4m

1.4m  
 7.4.12  
 3.0m

5.3.16

1 100 0.6m 1.0m  
 0.8m  
 20

1.0                      22                                      26                                      0.9m  
2                                      50



5.3.17-1	100 m		
	0.65	0.75	1.00
	0.75	1.00	
	1.00	1.25	
10m	0.75		
10m	1.00		

5.3.17-2

/m<sup>2</sup>

VĚŠTĚNÉ ŽELEZNICE

9 ;

10

10

5.4.3

1

2

2.00h

1.50h

3

8.0h

4

5

5.4.4

1

2

3

GB50028

4

3.4

4.2

5.4.5

5.4.6

1

1.50h

2.00h

2

5.5

)")"%

)")"%

)")"%

	h
	' "\$\$
	% "\$\$
	% "\$\$
	\$")\$

	\$")\$
	\$"&)

%

&

%\$\$h

)")"&

,

)")"&

)")"&

	m	m
%	%\$\$	%&\$\$
&	, \$	- \$\$
,	*\$	*\$\$

% \$

% \$

)")""

)")""

)")""

m

	, "\$	- "\$	%"\$ \$	%%" \$

)")"("

("\$\$m

)")")

%\$

)")")

)")")

%\$

m

	)"\$\$	*"\$\$	+"\$\$

6

6.0.1 150.0m 220.0m 160.0m

\*" \$" & (" \$"

6.0.3 80.0m

6.0.4

6.0.5 3000 2000 3000m<sup>2</sup>

6.0.6 3000m<sup>2</sup> 1500m<sup>2</sup>

6.0.7

% " \$" +  
& ' \$\$\$\$m<sup>o</sup>  
% \$" \$"

3 5.0m

4

\*" \$" +

ftŁ ftŁ flmŁ flmŁ flmŁ flmŁ

7

7.1

7.1.1

0.50h

1.00h

0.4m

0.5m

7.1.2

4.0m

7.1.3

0.4m

2.0m

2.0m

7.1.4

4.0m

7.1.5

7.1.6

7.2

7.2.1

3.00h

1.50h

2.00h

1.50h

7.2.2

2.00h

1.00h

7.2.3 2.00h

- 1
- 2
- 3
- 4
- 5
- 6

7.2.4

0.50h

7.2.5

2.00h 1.50h  
1.00h 0.50h

7.2.6

7.2.7

1 1.00h

2 1.00h 0.8m

3

+ " & " , & " \$ \$ h

7.2.9

1.00h

7.2.10

7.2.11

7.3

+ " " " %

)\$" \$m

+"" ""

\$" +m× \$" +m

&

+"" "(

7.3.5

7.4

7.4.1

1

&

,

4

5

6

7.4.2

7.4.1

1

2

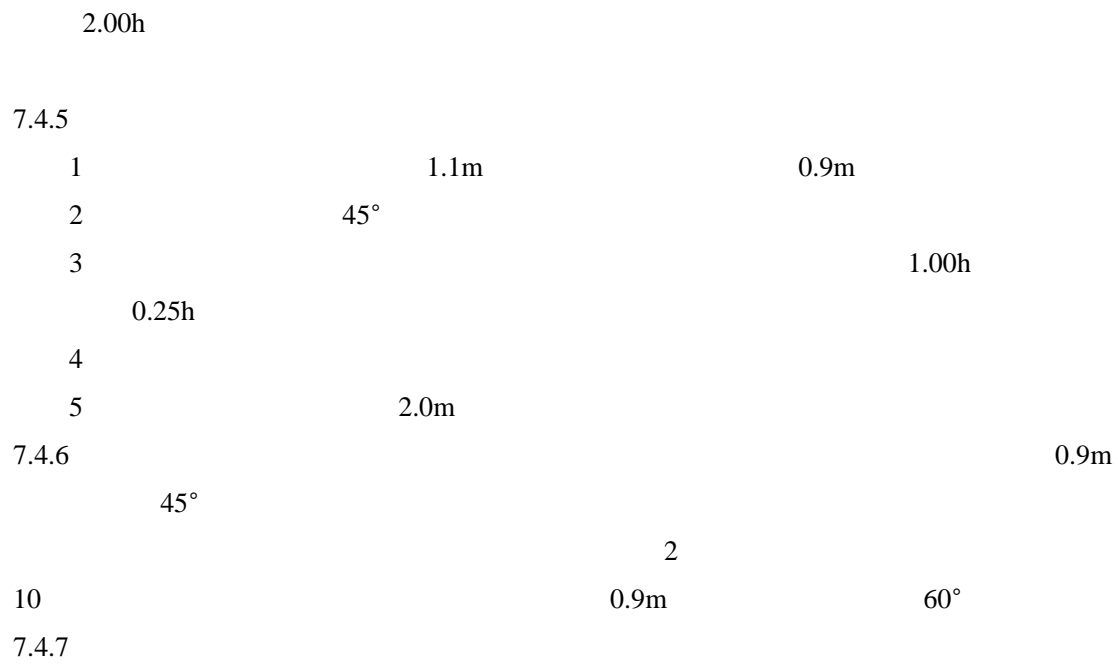
3

4

)

7.4.3

7.4.1





30

2

3

4

### 7.5

7.5.1

1.20h 0.90h

0.60h

7.5.2

1

2

3

7.4.12 4

4

7.5.3

1

3.00h

GB7633

GB7633

GB50084

3.0h

2

### 7.6

7.6.1

7.6.2

7.6.3

7.6.4

8

8.1

8.1.1

8.1.2

8.3.1

97%

3000m<sup>3</sup>

500

8.1.3

10.0m

0.1MPa

1

19mm

65mm

120.0m

5L/s

2

3

2.5m/s

8.1.4

15%

2

8.1.5

8.1.6

GB50140

8.2

8.2.1

8.2.1

8.2.2

:

1 8.2.2-1

2 8.2.2-2

3 8.2.2-2

50% 8.2.2-2

8.2.1

N		L/s
N 1.0	1	10
1.0 N 2.5	1	15
2.5 N 5.0	2	25
5.0 N 10.0	2	35
10.0 N 20.0	2	45
20.0 N 30.0	2	55
30.0 N 40.0	2	65
40.0 N 50.0	3	75
50.0 N 60.0	3	85
60.0 N 70.0	3	90
70.0 N 80.0	3	95
80.0 N 100.0	3	100

8.2.2-2

8.2.2-1

	(ha)	( )		
	100	1.5	1	
		1.5	2	
	100		2	
			1	

8.2.2-2

(L/s)

		V(m <sup>3</sup> )					
		V 1500	1500 V 3000	3000 V 5000	5000 V 20000	20000 V 50000	

			10	15	20	25	30	35
			10	15	20	25	30	40
			10	10	10	15	15	20
			15	15	25	25	—	—
			15	15	25	25	35	45
			10	10	10	15	15	20
			10	15	15	20	25	30
			15	20	30	40	45	—
			10	10	15	20	25	35
			10	15	20	25	30	—
			10	15	20	25	—	—
			10	15	20	25	—	—

1

2

3

8.2.3

8.2.3

8.2.3

L/s

W(t)		30 W 500	15	
		500 W 5000	25	
		5000 W 20000	40	
		W 20000	45	
W(t)		30 W 500	20	
		500 W 5000	35	
		5000 W 20000	50	
W t		10 W 500	20	
		500 W 1000	35	
		1000 W 5000	50	
W t		50 W 500	20	
		500 W 5000	35	
		5000 W 10000	50	
		W 10000	60	
V m <sup>3</sup>		50 V 1000	20	
		1000 V 5000	30	
		5000 V 10000	45	
		V 10000	55	
W t		100 W 5000	15	
		W 5000	20	



0.15L/s·m<sup>2</sup>

1.5

2

8.2.5

3

8.2.5

V m <sup>3</sup>	V 500	500 V 2500	V 2500
V m <sup>3</sup>	V 100	V 400	V 400
L/s	20	30	45

1

2

50m<sup>3</sup>

20m<sup>3</sup>

8.2.6

GB50219

8.2.7

1

15L/s

2

3

5

4

DN100

5

GBJ13

8.2.8

1

60.0m

2

15m

3

120.0m

4

150.0m

150.0m

15L/s

5

10 15L/s

5 40m

6

1 DN150

DN100

2 DN65

DN100

DN65

1

7

2.0m

5.0m

8

60.0m

120.0m

8.2.9

8.2.10

### 8.3

8.3.1

8.3.4

DN65

1

300m<sup>2</sup>

2

5000m<sup>3</sup>

3

800

1200

4

5

10000m<sup>3</sup>

5

7

DN65

DN65

3000m<sup>3</sup>

5000m<sup>3</sup>

8.3.2

8.3.3 1565

%

Q

'652056B7CE31EA1CE8

8.4.1

	h(m) (m <sup>3</sup> )	v n( )	(L/s)	( )	(L/s)
	h 24	v 10000	5	2	5
		V 10000	10	2	10
	24 h 50		25	5	15
	h 50		30	6	15
	h 24	V 5000	5	1	5
		V 5000	10	2	10
	24 h 50		30	6	15
	h 50		40	8	15
	H 24 V 10000		10	2	10
	H 24 V 10000		15	3	10
	5000 V 25000		10	2	10
	25000 V 50000		15	3	10
	V 50000		20	4	15
	800 n 1200		10	2	10
	1200 n 5000		15	3	10
	5000 n 10000		20	4	15
	n 10000		30	6	15
	5000 V 10000		10	2	10
	10000 V 25000		15	3	10
	V 25000		20	4	15
	5000 V 10000		5	2	5
	10000 V 25000		10	2	10
	V 25000		15	3	10
	5 V 10000		15	3	10
	V 10000		20	4	10
	V 10000		25	5	15
	8		5	2	5

1

10L/s

2

2

8.4.2

1

10

15L/s

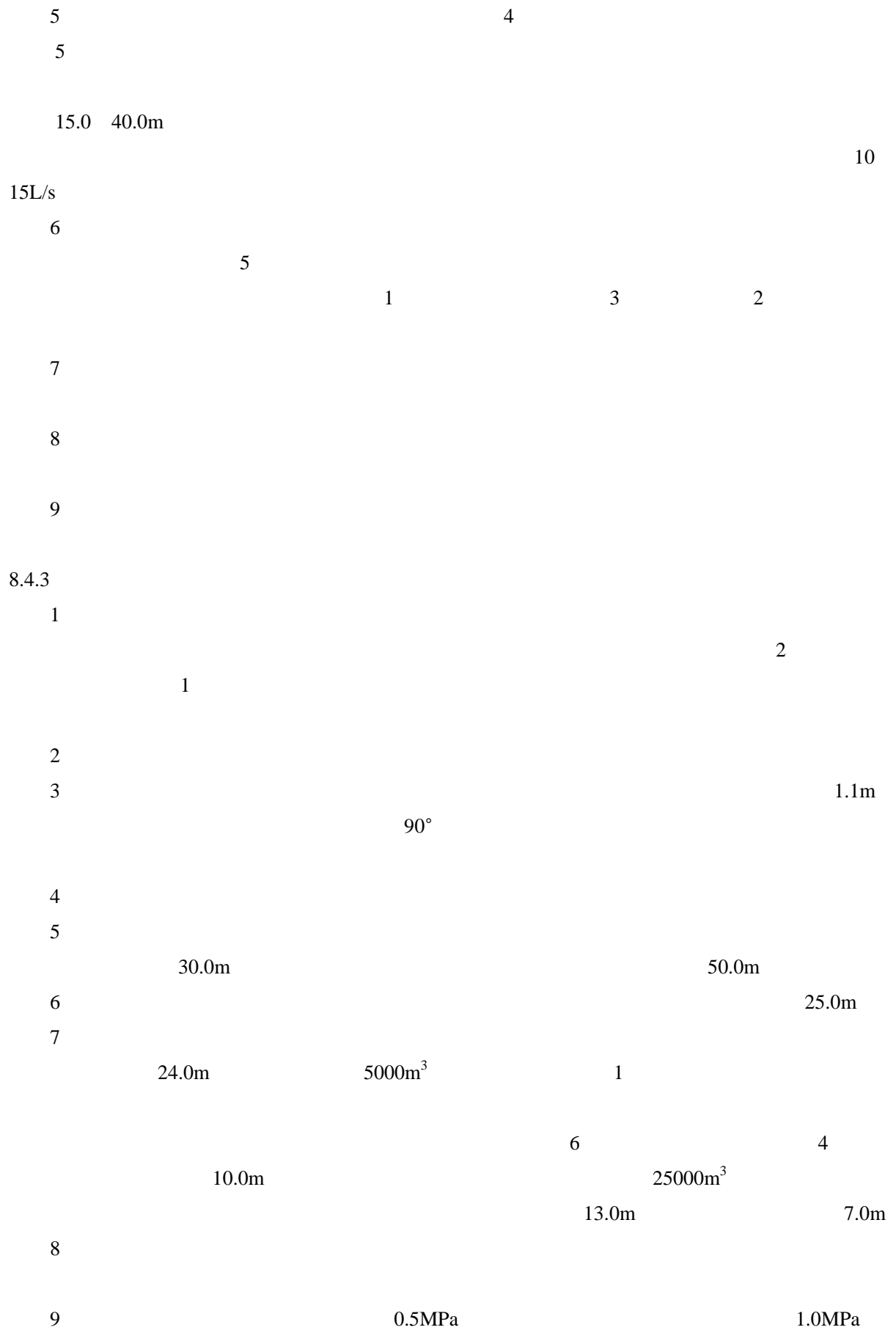
2

3

DN100

4





10  
8.4.4

1

2

10min  
12m<sup>3</sup> 12m<sup>3</sup> 25L/s  
18m<sup>3</sup> 18m<sup>3</sup> 25L/s

3

4

5

8.4.5

8.5

8.5.1

1

50000 5000 1500m<sup>2</sup>

2

1500m<sup>2</sup> 3000m<sup>2</sup> 500m<sup>2</sup>  
1000m<sup>2</sup> 500m<sup>2</sup> 500m<sup>2</sup>  
600m<sup>2</sup>

3

3000 1500 5000 2000

4

1500m<sup>2</sup> 3000m<sup>2</sup> 500m<sup>2</sup>  
3000m<sup>2</sup>

5

6

300m<sup>2</sup>

7

50

8.5.2

%

∅ \$\$

&\$\$\$

&

,

8.5.3

1			100m <sup>2</sup>
2	60m <sup>2</sup>	2t	
3	3000		
4	1500		2000
5	400m <sup>2</sup>		500m <sup>2</sup>
6			
8.5.4			
1	40MVA		90MVA
		125MVA	
2			
8.5.5			
1		100	
		UPS	
2			
3			
4			

, " \*

8.6.1

1

2

8.6.2

1

1

25L/s

2

2.5m/s

4

500m<sup>3</sup>

5

6.0m

15m

40m

60m

40m

6

16 6 0 Eys

, \* P 0 0 3 0 2 4 1 1 0 p

		20

8.6.4

7.2.5

8.6.5

DN65

9

9.1

9.1.1

9.1.2

9.1.3

1		300m <sup>2</sup>		32.0m
	20.0m		5000m <sup>2</sup>	
2	1000m <sup>2</sup>			
3			300m <sup>2</sup>	20.0m
4				
5			200m <sup>2</sup>	
6	200m <sup>2</sup>		50m <sup>2</sup>	
7	40.0m			

9.1.4

9.1.5

150mm

GB50243

9.1.6

1	20.0m/s
2	15.0m/s

9.2

9.2.1

1	9.1.3	300m <sup>2</sup>	15.0m/s
---	-------	-------------------	---------

9.2.2

9.2.4

30.0m

9.3

9.3.1

1

2

3

9.3.2

9.3.2

9.3.2

		m <sup>3</sup> /h
		25000
		16000
		13000
		15000
		22000

× 1.5m × 2.1m

0.75      2      2      1.50      1.75

0.70m/s

9.3.3

40 50Pa

25 30Pa

9.3.4

9.3.5

1

2~3

1

9.3.6

7.0m/s

9.3.7

GB50045

9.4

9.4.1

9.4.2

6.0m

500m<sup>2</sup>

500mm

500mm

9.4.3

%

&





10

10.1

10.1.1

10.1.2

25%

10.1.3

10.1.4

10.1.5

10.1.6

10.2

10.2.1

82.5

130

10.2.2

10.2.3

1

2

10.2.4

10.2.5

100

100mm

100

50mm

10.2.6

1

2

10.3

10.3.1

5

10.3.2

10.3.3

10.3.4

10.3.5

10.3.6

1

&

10.3.7

10.0m

3.00h

1.50h

1

2

15000m<sup>3</sup>/h

60kg

10.3.8

10.3.9

10.3.10

10.3.11

80

150mm

50mm

10.3.12

1

2

3

4

5

10.3.13

150

10.3.14

1

70

2

3

4

2.0m

5

GB15930

10.3.15

1

2

25

10.3.16

50

0.8m

10.3.17

1

3 /h

2

6 /h

3

12 /h

11

11.1

11.1.1

1

50.0m

2

1

30L/s

2

35L/s

3

1500

3000

3000m<sup>2</sup>

25L/s

'

% &

(

GB) \$\$) &

11.1.2

30s

11.1.3

30min

11.1.4

11.1.5

11.1.6

1

30mm

&

'

(

11.2

11.2.1

1.5

35kV

1.2

200m<sup>3</sup>

1000m<sup>3</sup>

40.0m

50%

11.2.2

11.2.3

11.2.4

100W

60W

11.2.5

11.2.6

GB50058

11.2.7

1

50.0m

2

30L/s

3

25L/s

4

5

### 11.3

11.3.1

1

2

3

400m<sup>2</sup>

200m<sup>2</sup>

4

300m<sup>2</sup>

5

11.3.2

1

0.5lx

2

1.0lx

3

5.0lx

4

11.3.3

11.3.4

1

" "

2				20.0m		10.0m	1.0m
	1.0m					GB13495	
11.3.5							
1		8000m <sup>2</sup>					
2		5000m <sup>2</sup>					
3		500m <sup>2</sup>					
4							
5	1500			3000			
11.3.6							
			GB13495		GB17945		
		11.4					
11.4.1							
1							
2		1000m <sup>2</sup>				500m <sup>2</sup>	
	1000m <sup>2</sup>			m		†	1

1

2

7.2.5

3

4

11.4.5

GB50116

12

12.1

12.1.1

12.1.2

12.1.2

12.1.2

	L m			
	L 1500	500 L 1500	L 500	—
	L 3000	1500 L 3000	500 L 1500	L 500
	—	—	L 1500	L 1500

12.1.3

2.00h

1.50h

2.00h

1

RABT

HC

A

2

12.1.4

12.1.5

1

500 1500m

2

200 500m

3

4

4.0m

4.5m

5

12.1.6

1

250 300m



2								
3								
4			2.0m			2.2m		
5								
12.1.7								
12.1.8								
		12.2						
12.2.1								
12.2.2								
1		8.1.2				8.2.7		
2								
		3.0h		2.0h				
3								
								90s
4			20L/s					30L/s
1000m						10L/s	20L/s	
5								10.0m
		0.5MPa						
6								
7		50.0m				1.1m		
8								
9				1		19mm	1	25m
65mm								
12.2.3								
12.2.4								
1		ABC				4		
2							ABC	
		2						
3			100.0m					

## 12.3

12.3.1

12.3.2

1

2

3

1.0h

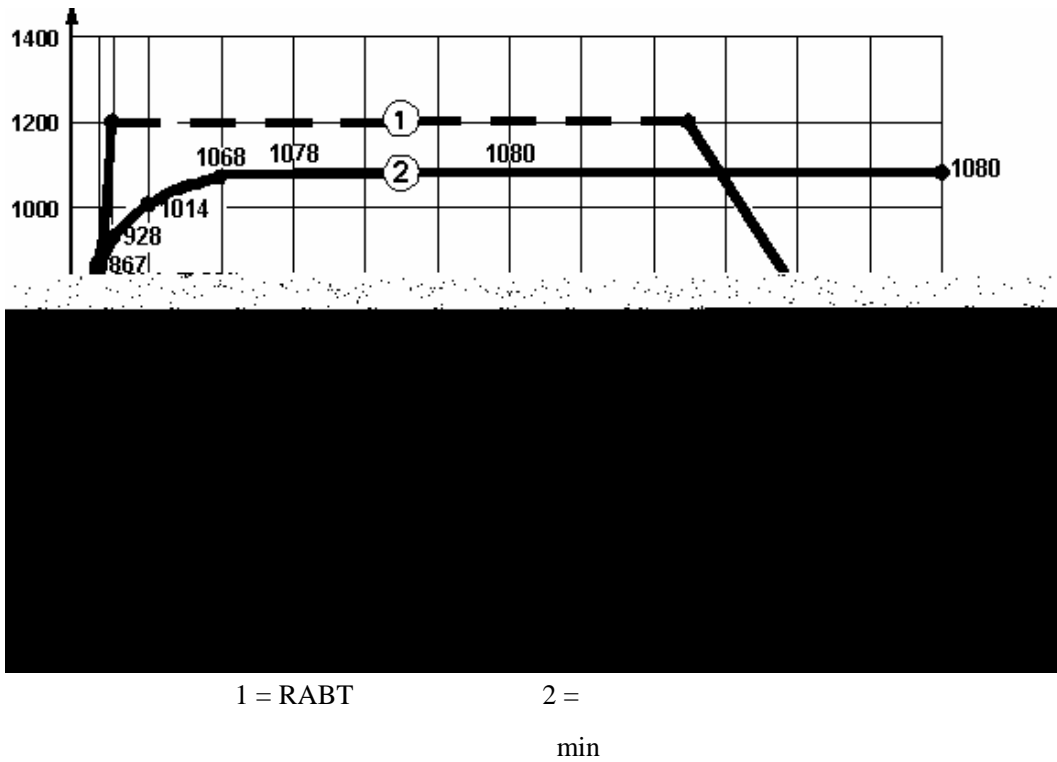
250

1.0h

3

A

A.0.1 RABT



A.0.2 HC

(min)	3	5	10	30
( )	887	948	982	1110
(min)	60	90	120	120
( )	1150	1150	1150	1150

A.0.3

1	HC		
25mm		250	380
2	RABT		
25mm		300	380

