2015 1674 ≤60

2022 8 2023 1 1 1674

2022 9 10

3

1. 1

1.1 1

1.2 1

1.3 5

1.4 5

2. 7

2.1 7

2.2 7

2.3 9

2.4 14

2.5 14

2.6 15

2.7 17

3. 20

3.1 20

3.2 21

3.3 26

4. 31

4.1 31

4.2 31

5. 32

6. 55

7. 57

.....58

.....60

1.

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1			2021	9	1	
2			2024	11	1	
3		591	2013	12	7	645
4		708	2019	4	1	
5			23			

8 44 2015 5

29 80

2 GB 6944-2012

3 GB 12268-2012

4 GB 18218-2018

5 GB 17914 2013

6 GB 50058-2014

7 AQ 3009-2007

8 GB/T 6441-1986

9 GB/T 13861-2022

10 GB 50140-2005

11 GB 50057-2010

12 GB 12158-2006

13 GB/T 50610-2010

14 GB 50395-2007

15 GB/T 29639-2020

16 GB 18218-2018

17 YJ/T 9007-2019

18 AQ 3010 2022

19 - SH/T 3178-2015

20 GB 30871-2022

21 (XF/T 3004 2020)

22 GB 55036-2022

23 GB/T 13869-2017

24 GB/T 34661-2017

25 GB/T 35579-2017

26 GB/T 50759-2022

27 AQ 8001-2007

1.2.3.

1 2005 4

2 2002

11

3 2003 7

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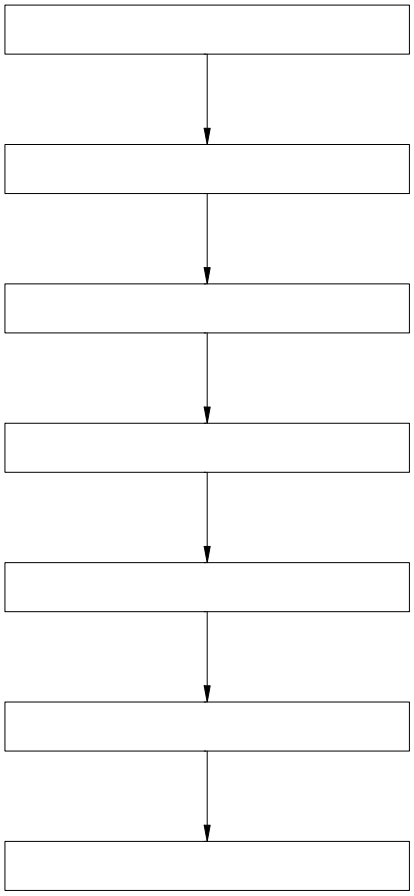


1.4-1

2.

2180m^2 SF 4 1

1 1 1 1 4

4 2 30m^3 2 30m^3

90m^3 GB50156-2021

3.0.9

2022 12

2.1

11m

24m

67%

7 78%

1 61%

3

101.2kPa

103.9kPa

96.9kPa

4

755.4mm

2.3

2.2m

5m

1

1 1

4

10m 0.2m 1.2m

0.6m

6m

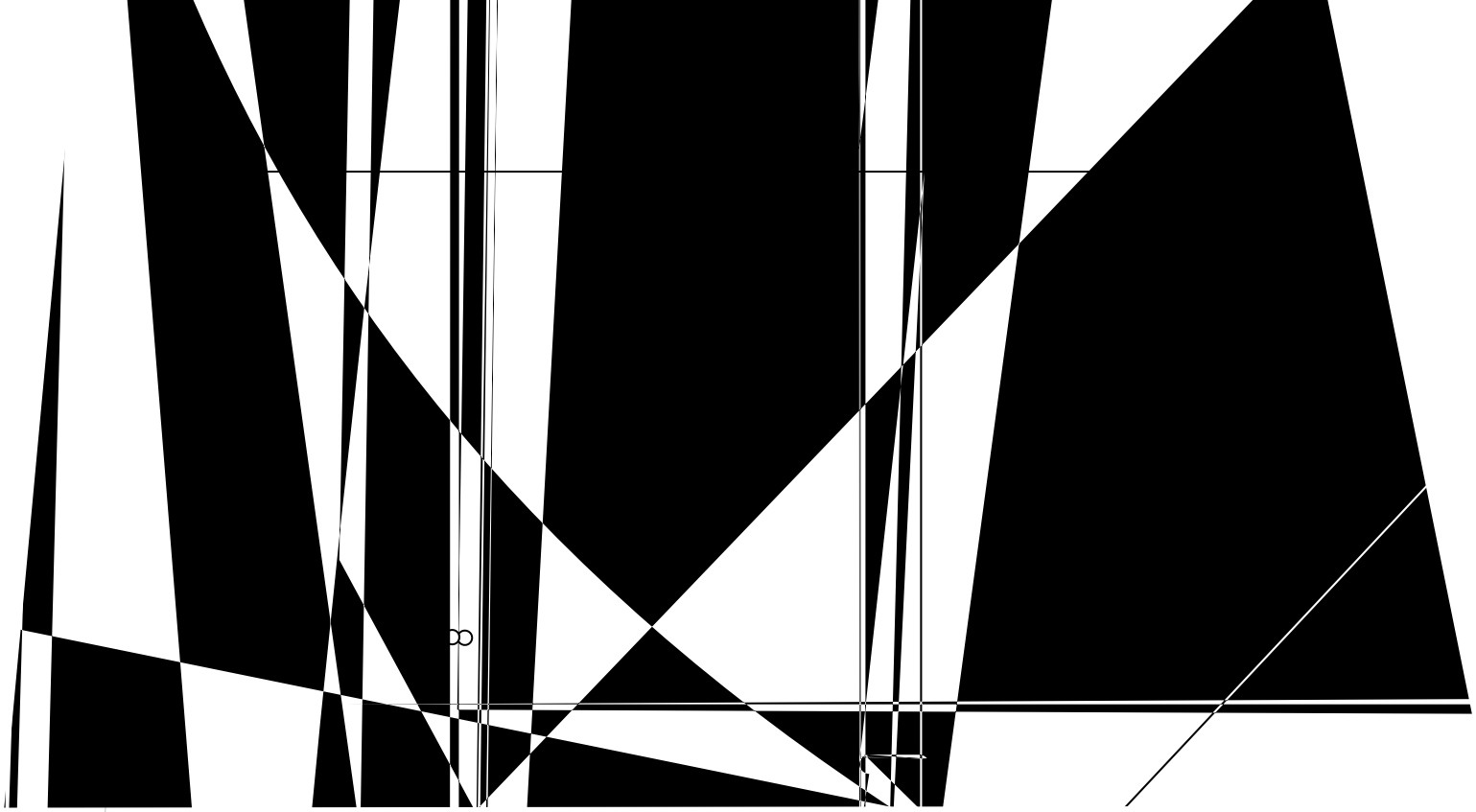
0.6m 10.5ĎŎ

8.5m 4

50mm 4m

2.3-1

2.3-1 2.3-2



2.3-1

		m	
			m
		5.5	44
		10.5	24
	-	-	-
		5	5
H=5m	-	5	9
		7	23
		5	21
		10.5	28
	-	-	-
		5	10
H=5m	-	5	14.5
		7	26
		5	49
		10.5	23
	-	-	-
		5	9
H=5m	-	5	15
		7	29
		5	49
		10.5	

3	49
9	24

2.3-2 m

2.4

2.4-1

2.4-1

1	98m^2	
2	360m^2	H=6m
3	54m^2	

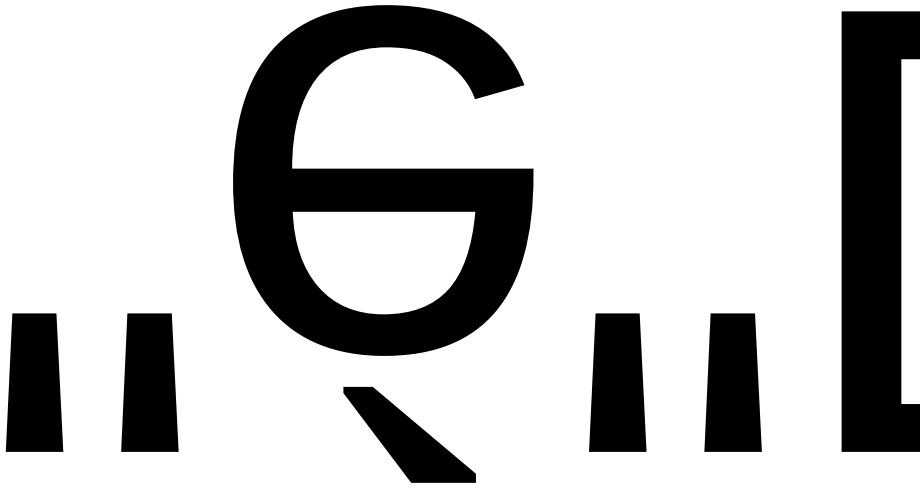
2.5

5 1

2.6

10min

2min



2.7

2.7.1

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91210124742732737F

2024 12 06

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[2022]000378

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3.1.1

GB18218-2018

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3.1-1

1		200t
2		5000t

60m³ 0.75

45

PC-TWA mg/m^3 300

1

2

3

1.5

4

1 30

5 0 -10 60 -20

50 -35 -50 45

15min

10

3.2.2

1

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3

1

3.3

3.3-1

3.3-1

1			
2			
3			
4			
5			
6			

7			

3.3.1

1

70m

6 46

2

1987 2 4

1986 5 2

4.

4.1

5.

8

5-1~9

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5-1

	1		
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	14		
	15		
	16		
	17		
	18		
	1		
	2		
	3		
	1		
	1		
	2 GB/T29639-2020		
	3		
	1		
	2		
	3		

2024 10 14

三、

5-3

	1	GB50156-2021 3.0.4		
	2 GB 50966	GB50156-2021 3.0.5		
	3 GB 50156 3.0.15	GB50156-2021 3.0.9	30m^3	
	4	GB50156-2021 3.0.25		
	5	GB50156-2021 3.0.27	14	
	1	GB50156-2021 4.0.1		
	2	GB50156-2021 4.0.2		
	3 GB 50156 4.0.4	GB50156-2021 4.0.4	2.3-1	
	4	GB50156-2021		

4.0.12

5

GB50156-2021
4.0.13

1

GB50156-2021
5.0.1

2

4m 10m
6m 8%
8%

GB50156-2021
5.0.2

3

GB50156-2021
5.0. ;

2.2m GB50156-2021

5.0.12

4.0.4 1.5 35m

2.3-1

4.0.4

10

GB50156 5.0.14 GB50156-2021 2.3-2

5.0.14

11 5.0.13-1

5.0.11

GB50156-2021

A 5.0.15

	0.08MPa	6.1.4		
	4 - - SH/T3178	GB50156-2021 6.1.5	SF	
	5 109Ω 109Ω A=0.04Vt	GB50156-2021 6.1.7	SF	
	6 11.2	GB50156-2021 6.1.8	SF	
	7	GB50156-2021 6.1.9	SF	
	8 80mm 4mm	GB50156-2021 6.1.10	SF	
	9	GB50156-2021 6.1.11		
	10 0.5m 0.9m 0.3m	GB50156-2021 6.1.12		

11

GB50156-2021

6.1.13

12

GB50156-2021

6.1.14

13

1.0 1.2

25mm

25mm

8

50mm

100mm 45°

T

100mm

GB50156-2021 45°

150mm 6.3.8

200mm 150mm

9

4m

GB50156-2021

2m

6.3.9

		GB50156-2021 6.3.13		
	14	GB50156-2021 6.3.14		
	15 2‰ 1%	GB50156-2021 6.3.15	2‰ 1%	
	16 0.4m 0.2m 100mm	GB50156-2021 6.3.17	0.5m 0.3m 0.2m	
	17	GB50156-2021 6.3.18		
	18 6.3.12 1. 2.8m/s 2.	GB50156-2021 6.3.19		
	19 GB/T21447	GB50156-2021 6.3.20	GB/T21447	
	20	GB50156-2021 6.5.1	SF	
	21	GB50156-2021	SF	

GB 50108 6.5.2

200mm
500mm

22

100mm 4mm

200mm ε╖

SF
GB50156-2021
6.5.3

10mm
30mm

23

GB50156-2021
6.5.4

24

6.3

	5%			
	25 3.5mm	GB50156-2021 6.5.6	3.5mm	

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5-5

	1 2 2 5kg 1 5kg 1 6L 2 2 1 35kg 15m 5 $2m^3$ 2 $2m^3$	GB50156-2021 12.1.1	5kg 8 35kg 2 5kg 2 $2m^3$ 8	
	2 GB50140	GB50156-2021 12.1.2	5kg 4 2kg CO_2 8 5kg 2 GB50140	
	1	GB50156-2021 12.3.2		

0.25m

13.1.8

1

2 GB50156-2021 2

13.2.1

2

GB50156-2021

4Ω 13.2.2

3 LPG

GB50156-2021

13.2.4

4

30Ω GB50156-2021
13.2.10

9

		5.0.8		
	1	GB50156-2021 13.5.1		
	2. 1 3	GB50156-2021 13.5.2		
	3.	GB50156-2021 13.5.4		

七、 、 、

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	1 140kw 2m	GB50156-2021 14.1.3		
	2 12 5	GB50156-2021 14.1.4		

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GB50156-2021
14.2.7

6

GB50156-2021
14.2.9

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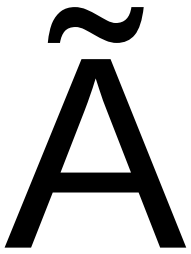

300m^2

GB50156-2021 300m^2
14.2.10

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			UPS	

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	5	5	0	0
	31	31	0	0
	22	21	0	1
	45	39	0	6
	8	8	0	0
	28	27	0	1

6 “ ” “
”

7

8

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10

11

2018 74

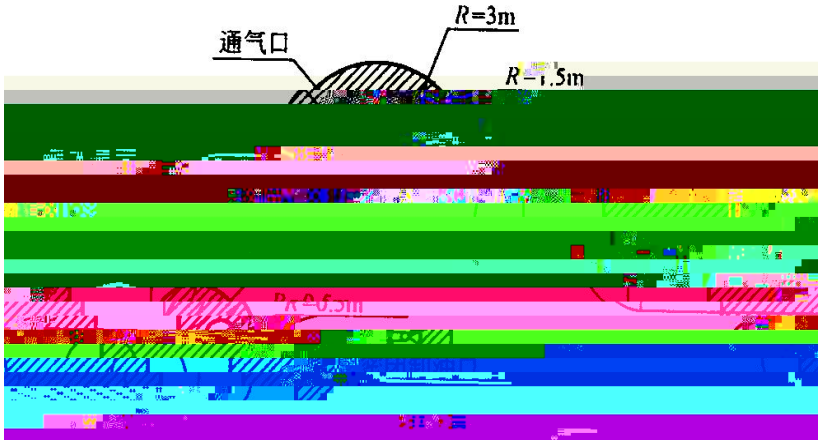
12

7.

GB50156-2021

3 3m

1.5m 2



2

5. 3

1 0

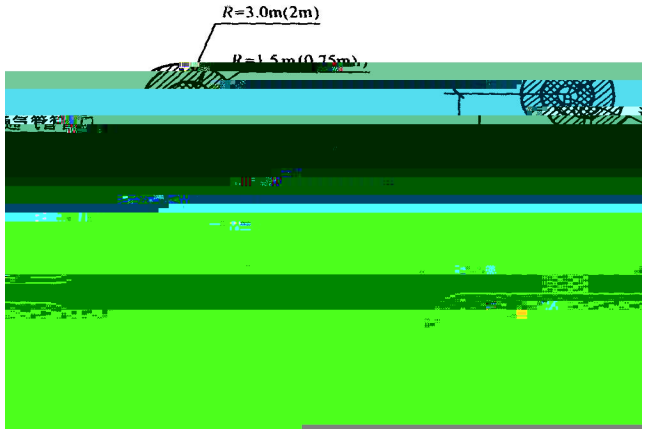
2 1.5m 0.75m

0.5m 1

3 1.5m 1m

3m 2m 1.5m

2



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