
2015

1674

60

2022 8

2023 1 1

1674

2023 4 22

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	.....	7
2.4	.....	12
2.5	.....	12
2.6	.....	13
2.7	.....	14
3.	.....	17
3.1	.....	17
3.2	.....	18
3.3	.....	23
4.	.....	29
4.1	.....	29
4.2	.....	29
5.	.....	30
6.	.....	54
7.	.....	56
	.....	57
	.....	59

1.

1.1

1.2

1.2.1.

1								2021	9	1
2								2021	4	29
3						591		2013	12	7
645										
4						708		2019	4	1
5					2025					
14	34	2025	5	28						
6									103	
					2022	11	9			
7									3	2015
5	29				80		2015	7	1	
8										

16 2008 2 1

9

2 2019 9 1

10

30 2015 5 29

80

2015 7 1

11

44 2015 5

29

80

2015 80 2015 8 19

23

4
Ä5



%

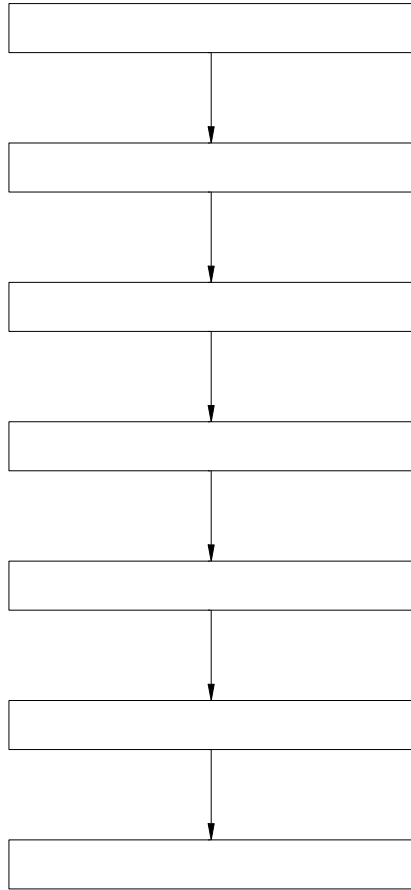
GB 1821 18

GB 1821 2013

6

七





1.4-1

2.

2.3-1

2.3-1

2.3-2

2.3-2

m

2.4

2.4-1

2.4-1

1		240m ²	120m ²		-	
2		200m ²	200m ²			H=6m
3	-	-	90	-	-	

2.5

2

1

2.6

26-1

5

6

		6		8kg		1
8kg		2	5kg	CO ₂	6	35kg
	2	8kg		2	2m ³	

7

				9		2
6			4m	1		3m

3.

Q₁ Q₂...Q_n——

t

3

3.1.3

3.1-1

3.1-1		
1		200t
2		5000t

60m³

0.75

45t

60m³

0.89

53.4t

$$S=45/200+53.4/5000=0.23568<1$$

3.2

3.2.1

	2*		1B	2
1	-	2	-	2
	1630			

92 95 98 3

=1 0.72 0.775

=1 3 4 -46

1.4% 7.6%

415 530

0.813MPa

300m

50m

1674

-18

=1 0.87 0.9

282-338

0.6%~7.2%

5 0 -10 60 -20
50 -35 -50 45

15min

10

3.2.2

3.3

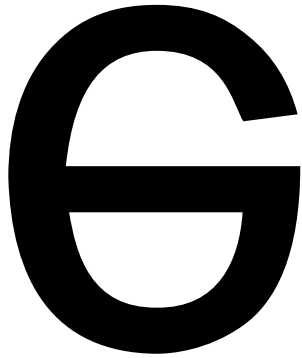
3.3-1

3.3-1

1			
2			
3			
4			
5			
6			
7			
8			
9			

3.3.1

1

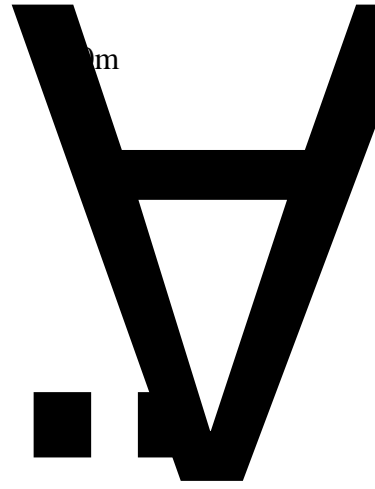


2



6

x
 (6 F W \$ & F v
 L
 & F v





3.3.6

3.3.8

GB 3608-2025

3.2 2m 2m

3.3.7

1

2

4.

4.1

8

1

2

3

4

5

6

7

8 20

4.2

5.

8

5-1~9

5-1

	1		
	2		
	3		
	4		
	5		

5-2

	1		
	2		
	3		
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		

2	4m 6m 8%	GB50156-2021 5.0.2	12m 8%	
3		GB50156-2021 5.0.3		
4	“ ” “ ”	GB50156-2021 5.0.5	“ ” “ ”	
5	3m 1.2m ³ 100mm 1.2m	GB50156-2021 5.0.6		
6		GB50156-2021 5.0.7		
7		GB50156-2021 5.0.8		
8	14.2.10 300m ²	GB50156-2021 5.0.9		
9	4.0.4 “ ” “ ”	GB50156-2021 5.0.10		

10

GB50156-2021

5.0.11

11

2.2m

4.0.4

1.5

25m

11

GB50156-2021

6.1.11

12

0.5m

0.9m

GB50156-2021

0.3m

6.1.1-

1

c

c



	1.0 1.2			
	25mm		25mm	
8	100mm T	50mm 45° 150mm	GB50156-2021 6.3.8	100mm 45° 150mm
9		4m 2m	GB50156-2021 6.3.9	4m
10		50mm	GB50156-2021 6.3.10	50mm
11	1.5kPa~2kPa 2kPa~3kPa		GB50156-2021 6.3.11	
12				

GB/T8163

4mm

4mm

4mm

108 -m

1010

13

	6.3.12			
1. 2.	2.8m/s	GB50156-2021 6.3.19		
20	GB/T21447	GB50156-2021 6.3.20	GB/T21447	
21		GB50156-2021 6.5.1	SF	
22	GB 50108 200mm 500mm	GB50156-2021 6.5.2	SF	
23	100mm 4mm 200mm	GB50156-2021 6.5.3	SF	

30mm 10mm

24

GB50156-2021
6.5.4

25

6.3



3	“ ”	XF/T3004-2020 8.1		
4	“ ”	XF/T3004-2020 8.4		

8

8

13'

5-6 GB20120-50 V
E VE D.D D

1

GB50156-2021
13.1.1

2
I

380/220V

GB50156-2021
13.1.2

380/220V

3

90min

FE *

GB50156-2021
13.1.3

2h

†

			GB50156-2021 13.2.8		
7	380/220V 380V	TN-S TN-C-S	GB50156-2021 13.2.9		
8	30		GB50156-2021 13.2.10		
9			GB50156-2021 13.2.11		
10		5	GB50156-2021 13.2.12		
11			GB50156-2021 13.2.13		
12			GB50156-2021 13.2.14		
13	100		GB50156-2021 13.2.15		
14		1	GB50156-2021 13.2.16	1	
1					

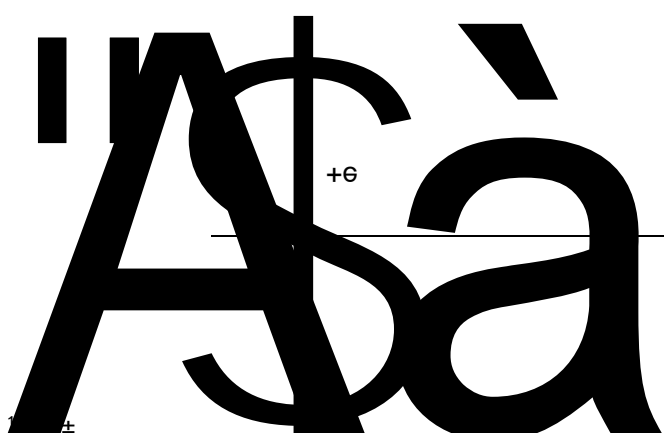
GB50395-2007

5.0.1

2

GB50395-2007

GB20302-500



+6

2m



14.2.3

0.6m

100mm

0.5m

4

GB 50016

GB50156-2021

14.2.4

5

GB50156-2021

14.2.7

6

GB50156-2021

14.2.9

7

300m²

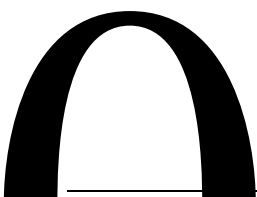
GB50156-

14.2.10

300m²

8

B



		GB50156-2021 14.2.15		
13		GB50156-2021 14.2.16		
1		GB50156-2021 14.3.1		

17

10

7

20

5-8 20

	“ ”			

5-9

	5	5	0	0
	31	31	0	0
	24	20	0	4
	53	41	0	12
	8	8	0	0
	28	27	0	1
	17	10	0	7
	20	10	0	10
	186	152	0	34

5-9

186

34

152

1

1		8kg	4	4
			2	4
2		35kg	1	2
		8kg	-	2
			2m ³	2m ³
3		8kg	-	2
		5kg CO ₂	-	6

6.

1

6

“

”

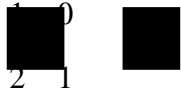
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7.

GB50156-2021

GBS003



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2.

