



# Q/LBS

Q/320924 lbs 004-2020

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**Technical specification for external thermal insulation systems of  
non sintered foamed ceramic insulation panel**

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2020-07-01

2020-07-06



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**Technical specification for external thermal insulation systems of  
non sintered foamed ceramic insulation panel**

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1	.....	1
2	.....	2
3	.....	3
4	.....	4
4.1	.....	4
4.2	.....	4
5	.....	7
5.1	.....	7
5.2	.....	8
6	.....	10
6.1	.....	10
6.2	.....	10
7	.....	14
7.1	.....	14
7.2	.....	14
7.3	.....	15
A	.....	17
B	.....	18
C	.....	19
	.....	20
	.....	21



1.0.1

1.0.2

1.0.3

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2.0.1 non sintered foamed ceramic insulation panel

2.0.2 external thermal insulation systems  
of non sintered foamed ceramic insulation panel

2.0.3 construction of external thermal  
insulation systems of non sintered foamed ceramic insulation panel

2.0.4 adhesive mortar

2.0.5 rendering coating mortar

2.0.6 alkali-resistant fiberglass mesh

2.0.7 rendering coating

2.0.8 protecting coating

2.0.9 anchor

2.0.10 fittings

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3.0.1

3.0.2

3.0.3

3.0.4

3.0.5

GB 50176

GB 50189

GB 51245

JGJ 75

JGJ 134

JGJ 26

3.0.6

3.0.7

3.0.8

3.0.9

3.0.10

25

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4

4.1

4.1.1

4.1.1

4.1.1

		JGJ 144-2019 A.2
	80kPa	JGJ 144-2019 A.5
	500g/m <sup>2</sup>	JGJ 144-2019 A.5
	3J	JGJ 144-2019 A.4
	10J	JGJ 144-2019 A.4
30	80kPa	JGJ 144-2019 A.3
	0.85g/(m <sup>2</sup> ·h)	JGJ 144-2019 A.10
2h		JGJ 144-2019 A.9
		JGJ 144-2019 A.8

4.1.2

4.2

4.2.1

4.2.2

4.2.2

4.2.2

	(mm)	
	± 2	GB/T 5486
	+2.0 0	GB/T 5486
	3.0	GB/T 5486



		GB/T 5486
--	--	-----------

4.2.3 I II III IV

4.2.3

4.2.3

		I	II	III	IV	
kg/m <sup>3</sup>	280	250	180	150	GB/T 5486 (65± 2)	
W/(m·K)	0.10	0.08 0	0.065	0.055	GB/T 10294 GB/T 10295 (65± 2)	
MPa	0.70	0.60	0.40	0.30	GB/T 5486 GB/T 4111-2013 A.3.2.2	
MPa	0.20	0.20	0.15	0.12	JGJ 144-2019 A.6 GB/T 4111- 2013 A.3.2.2	
%	3	3	3	5	GB/T 5486 (65± 2)	
—	A <sub>1</sub>				GB 8624	

4.2.4

4.2.4

4.2.4

( ) (MPa)			0.60
	( 48h 2h)		0.40
	( 48h 7d)		0.60
( ) (MPa)			0.10
	( 48h 7d)		0.10

GB/T 29906  
-2013 6.4

	(h)	1.5 4.0	

4.2.5

4.2.5

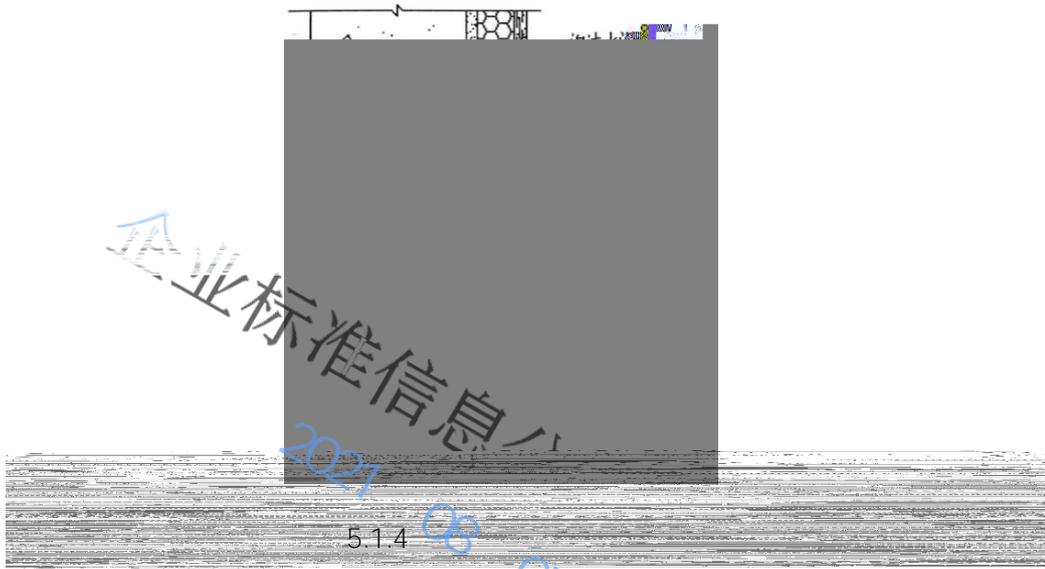
4.2.5

(		0.10	GB/T 29906 -2013 6.6
(MPa)	( 48h 7d)	0.10	
/		3.0	
	(h)	1.5	

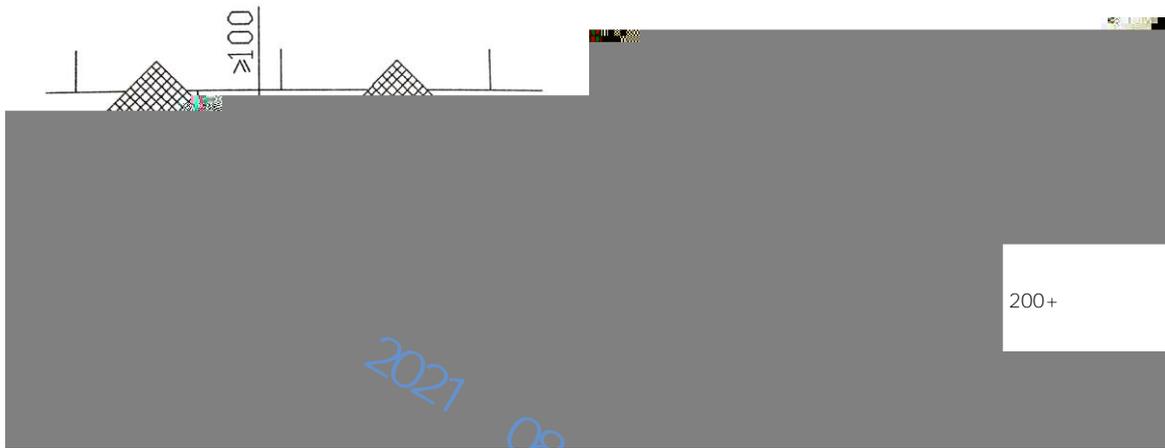




5.1.5



1  
45°  
400mm × 200mm  
5.1.5



5.1.5

2  
6mm 10mm

5.1.6

5.2

5.2.1



5.2.2

$\lambda_c$

$S_c$

5.2.2

5.2.2

	(kg/m <sup>3</sup> )	$\lambda_c$ [W/(m·K)]	$S_c$ [W/(m <sup>2</sup> ·K)]	
	280	0.01	1.20	1.20
	250	0.080	1.20	1.20
	180	0.065	0.90	1.20
IV	150	0.055	0.70	1.20



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6

6.1

6.1.1

GB 50204

GB 50203

6.1.2

6.1.3

A

6.1.4

6.1.5

35

5

24h

0

5

6.1.6

6.1.7

6.1.8

6.2

6.2.1

6.2.1

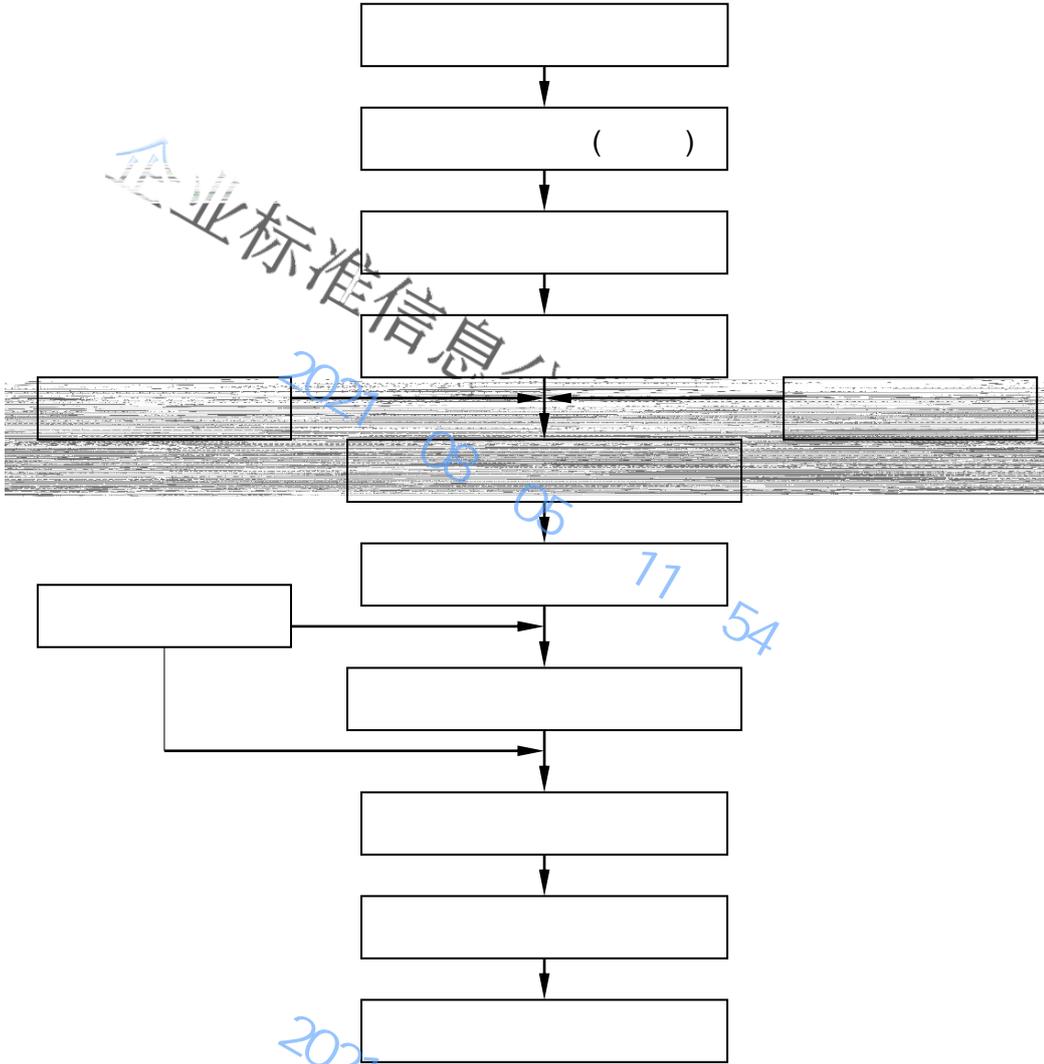
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2  
4h

5min

2h



6.2.1

6.2.4

1

2

JG/T 366

6.2.5

1

2

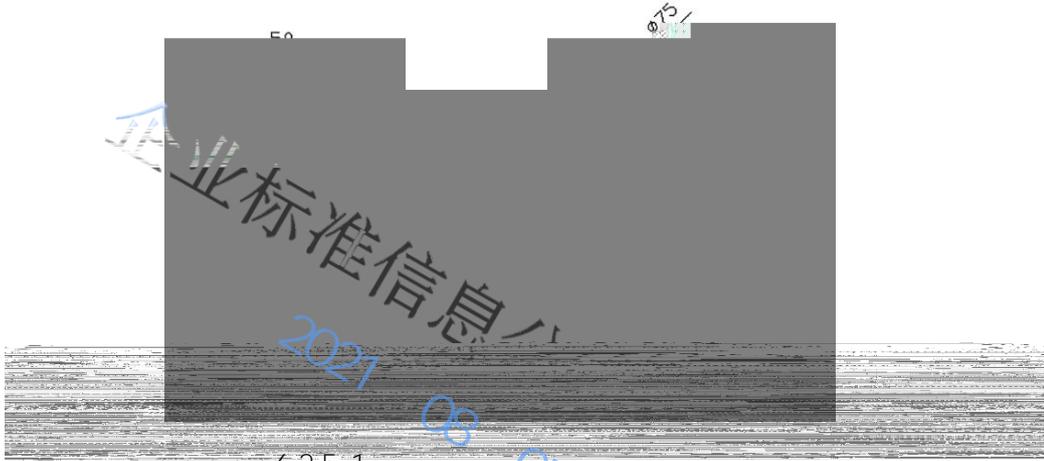
60%



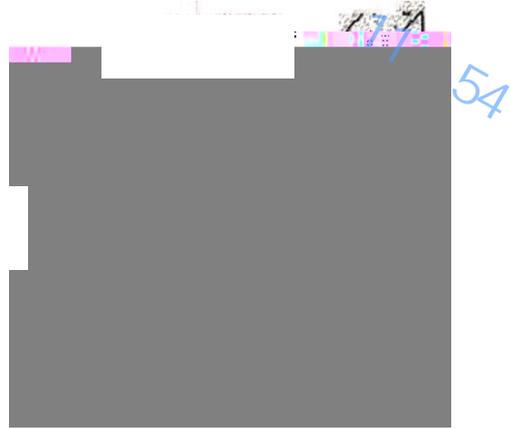
6.2.5-1

3

6.2.5-2



6.2.5-1



6.2.5-2

4

100mm

6.2.5-3

6.2.6

)

6.2.7

2m

24h 48h

6.2.8

2mm 3mm





7

7.1

7.1.1

GB 50411

7.1.2

1

2

( )

7.1.3

1

2

3

4

5

6

7

7.1.4

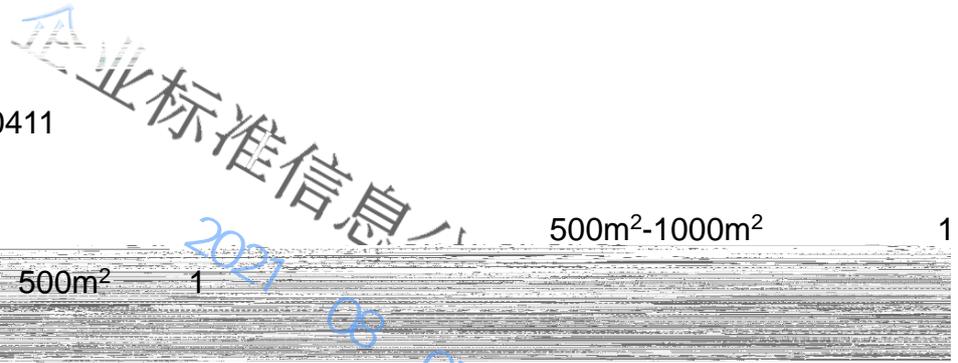
7.1.5

7.2

7.2.1

1

4.2



71 54

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71 54



2

B

7.2.2

C

4.1.1

60%

1

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7.2.3



3

7.2.4

3

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7.2.5

5%

:

7.2.6

5%

5

7.3

7.3.1

3

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7.3.2

7.3.2

10%

5

7.3.3

100mm

80mm

5

2m<sup>2</sup>

7.3.4

7.3.4

7.3.2

		(mm)	
1		4	2m
2		4	2m
3		4	2m
4		4	200mm
5		1.5	

7.3.4

		(mm)	
1		4	2m
2		4	2m



A

( )

A.0.1  
400cm<sup>2</sup>

5

300cm<sup>2</sup>

5mm 8mm

JGJ 110

$B$  (N/mm<sup>2</sup>)

A.0.2

$$F = B \times S \quad 0.10 \text{N/mm}^2$$

$F$  ——

N/mm<sup>2</sup>

$B$  ——

N/mm<sup>2</sup>

$S$  ——

(

40%

70%)



B

( )

B.0.1

B.0.1

1		800m <sup>3</sup>	800m <sup>3</sup>	
			3	
2		30t	30t	48h 7d
		2kg	10kg	( )
3				48h 7d
				( )
4		7000m <sup>2</sup>	7000m <sup>2</sup>	
		10 m <sup>2</sup>		

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C

( )

C.0.1

C.0.2

C.0.3

100mm× 100mm

C.0.4

(

)

5mm 8mm

14d

C.0.5

JGJ 110

C.0.6

1000m<sup>2</sup>

3000m





1	GB/T 4111-2013	
2	GB/T 5486	
3	GB/T 7689.5	
4	GB 8624	
5	GB/T 9914.3	
6		GB/T 10294
7		GB/T 10295
8	GB/T 11969	
9		GB/T 13475
10		GB/T 20102
11	GB/T 20473-2006	
12		GB/T 29906-2013
13	GB 50176	
14	GB 50189	
15	GB 50203	
16	GB 50204	
17	GB 50411	
18	GB 51245	
19		JC/T 561.2-2006
20	JG/T 366	
21		JGJ 26
22	JGJ 51	
23		JGJ 75
24		JGJ 110
25		JGJ 134
26	JGJ 144-2019	



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1

1.0.1

2018

GB 50016-2014 6.7

A

A

A1



1.0.2



2.0.1

2.0.2

2.0.9

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3.0.1 3.0.5

JGJ 144-2019

3

3.0.8

3.0.10

JGJ 144

-2008



5

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4

4.1

4.1.1

JGJ 144-2019



4.2

4.2.2

30mm 100mm

4.2.3

IV

IV

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4.2.4 4.2.5

4.2.6

JC 561.2-2006

A

4.2.8

5

5.1

5.1.1

5.1.2

(xcvñ@



6

6.1

6.1.3

(1)

(2)

(3)

(

)



6.1.7

6.2

6.2.1

6.2.2

6.2.5

60%

" L "

45°

400mm× 200mm

"

"

6.2.6

100mm

100mm( )+

+100mm( )

6.2.8



6.2.10

6.2.11

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2021

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54



7

7.1

7.1.3

7.1.4

企业标准信息

7.2

7.2.2

C

4.1.1

JGJ 110

C

100mm× 100mm

7.2.3 7.2.6

7.3

7.3.1 7.3.4



A

A.0.1 A.0.2

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2021

08

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54

2021

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05

11

54



B

B.0.1

A

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2021

08

05

11

54

2021

08

05

11

54

# C

C.0.1 C.0.7  
8.1.7  
3 "

GB50210  
JGJ126-2000 6.0.6

JGJ110

"