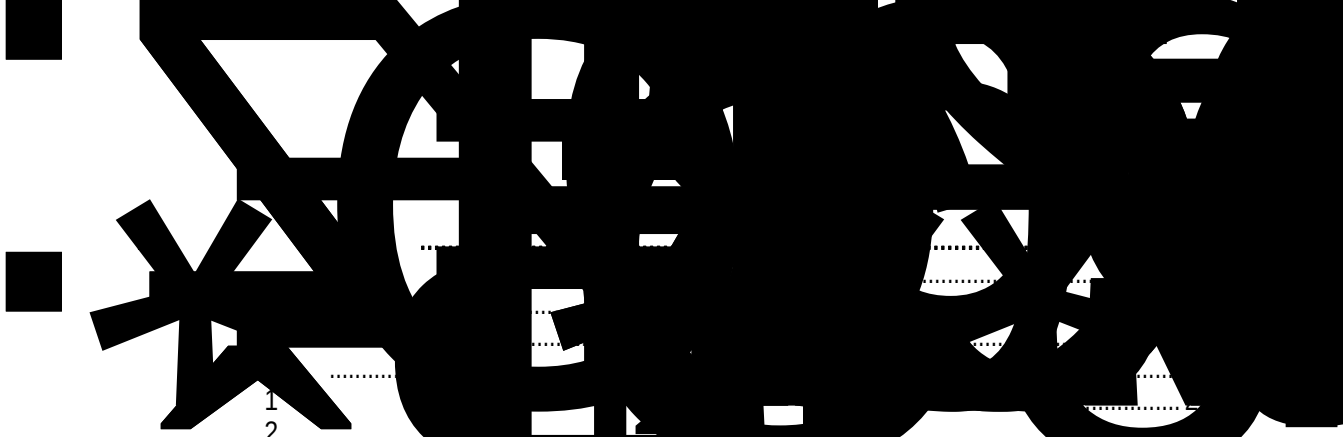

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5.6 38
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1 237 125

33 3

1.1 74 33

10 3

70

60 ≤ 1mm

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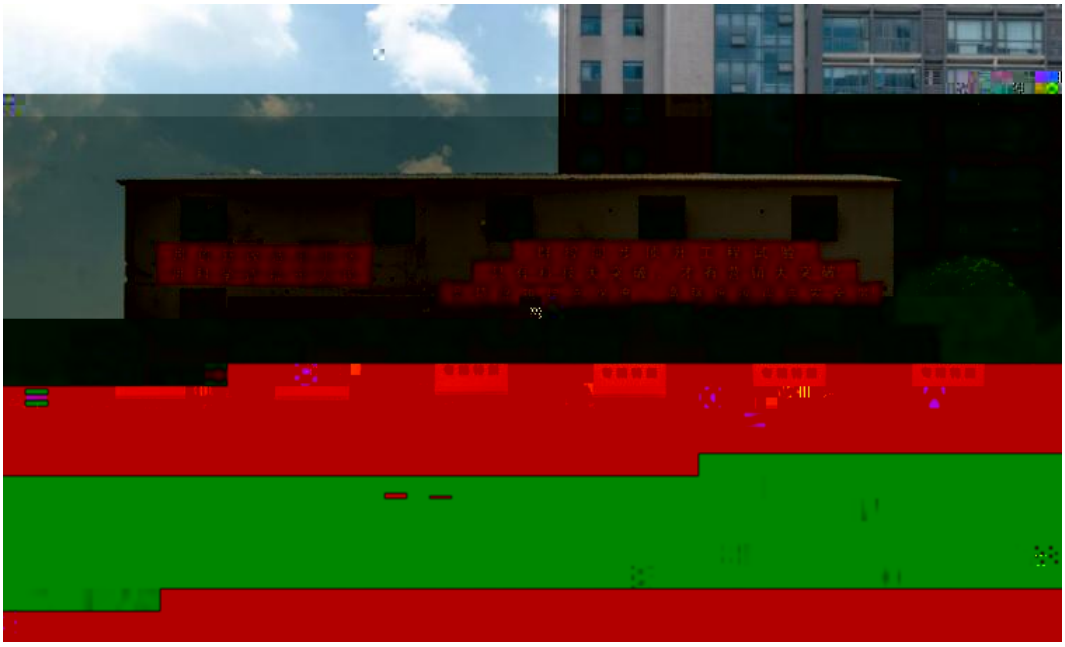

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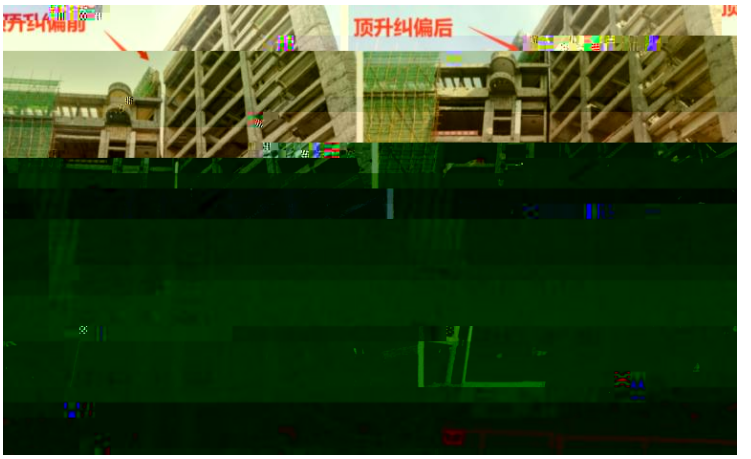
1 11 44.1m 4500t

15.4‰ 12‰

338mm 4



12 39.05m 3000t

10‰

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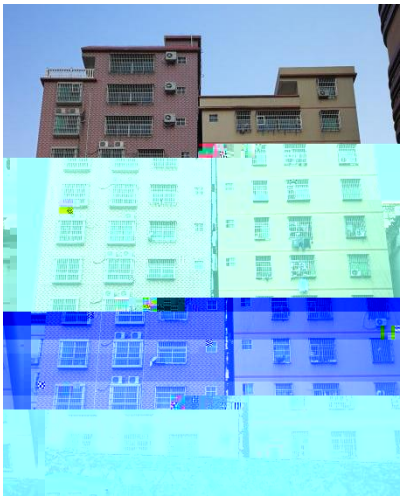

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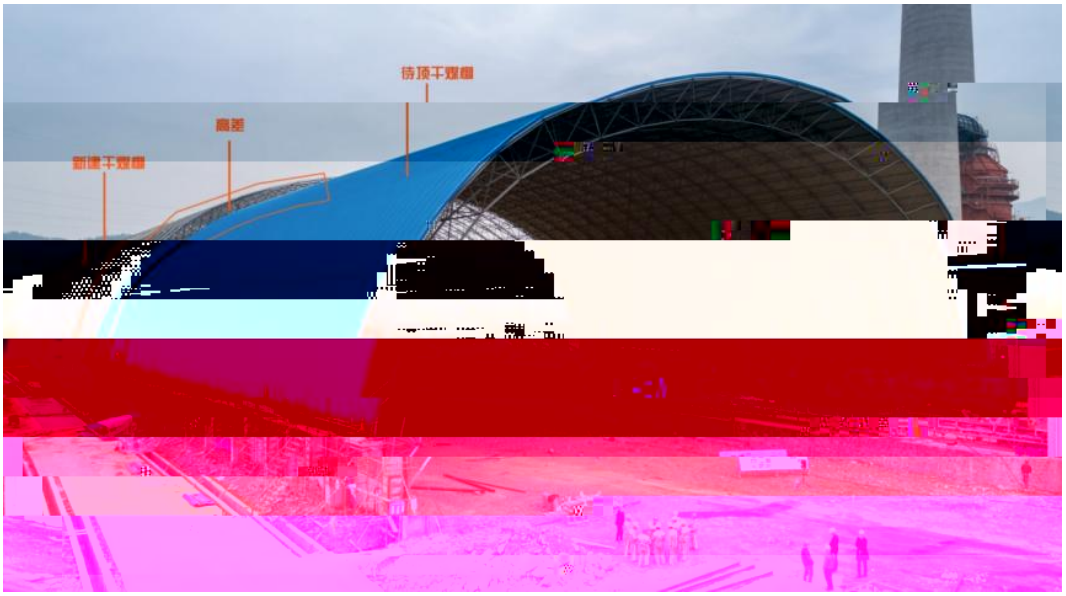
71m 60m

1.8m



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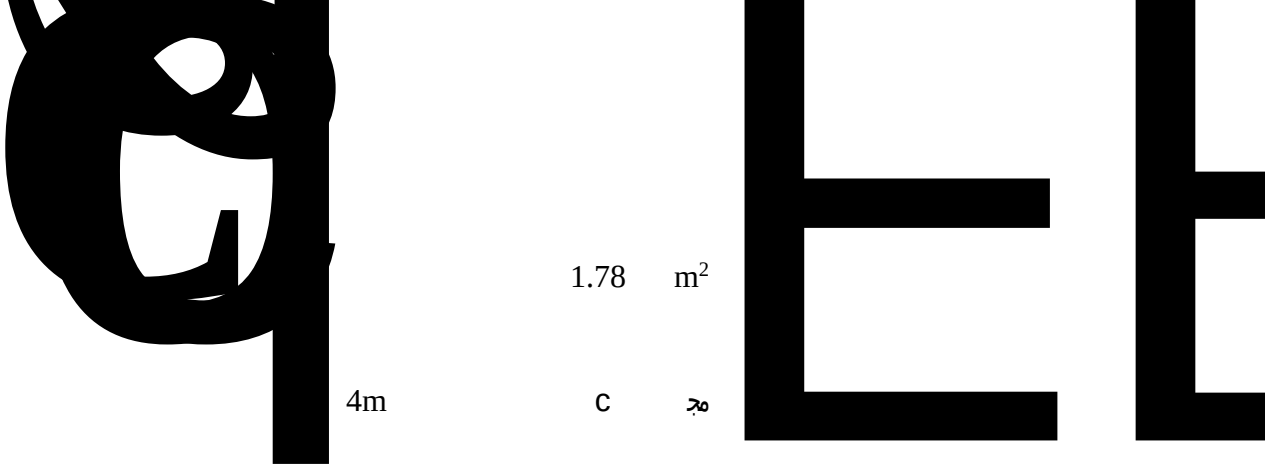
308m 82m 35.74m 37

208m 18m 41.217m 1600t

1.945m

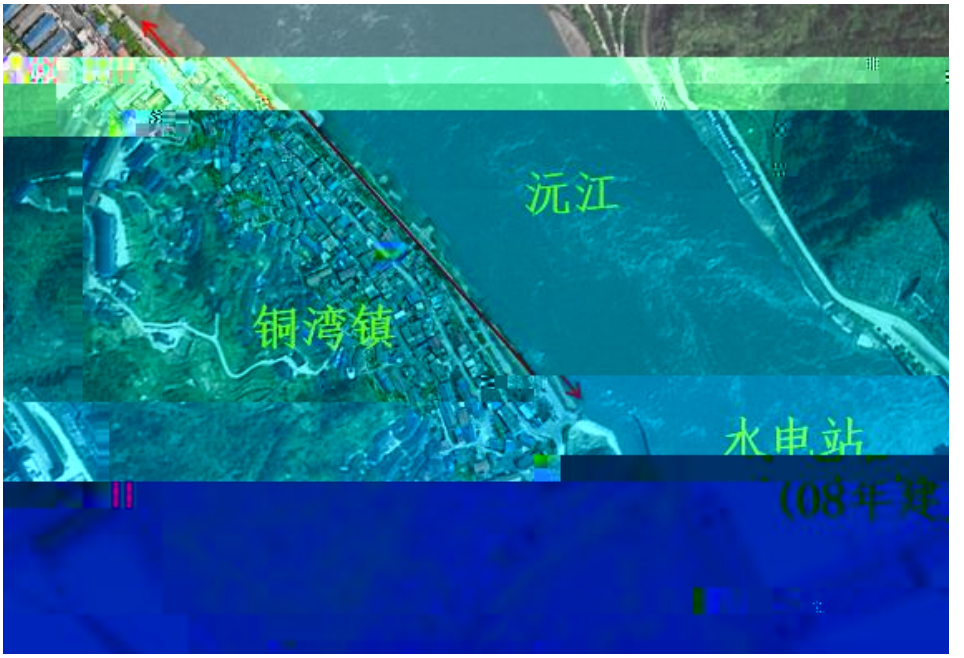
1.945m

1# 9 24m T 2# 4 2 İ4 ѡ



1.78 m^2

4m c مجـ

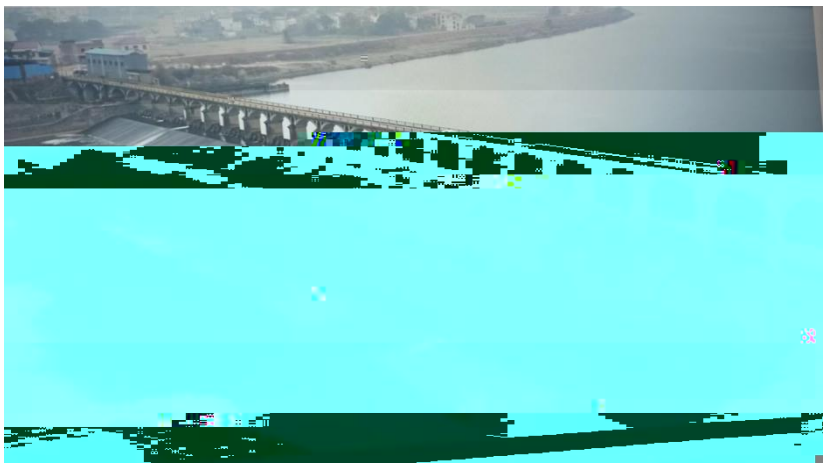


▲ ژ ✗ m " ט

316m 26

2m

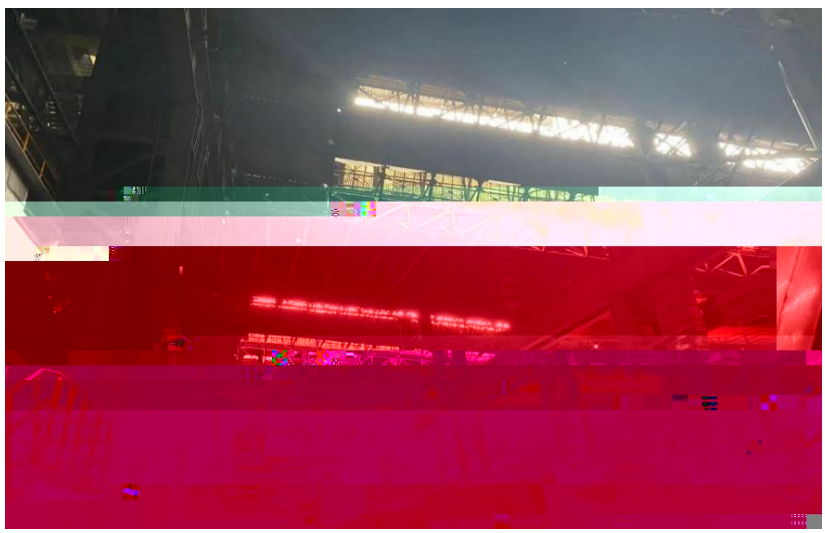
2m



364m 132m 5 m^2

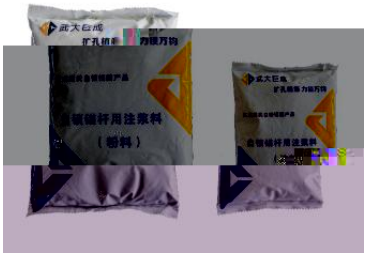
2~10m

8



1.2

3



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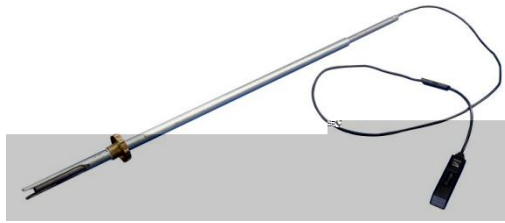

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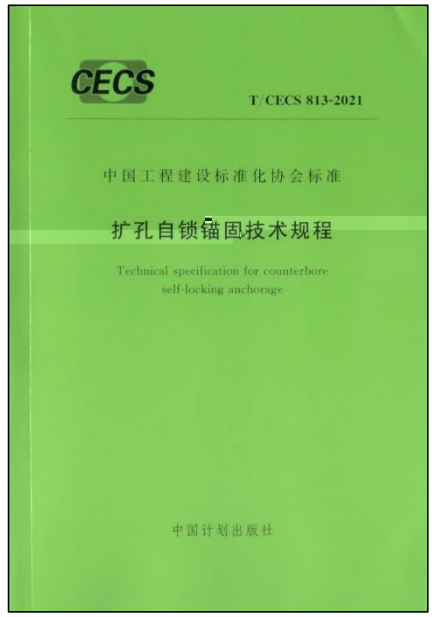
CECS
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中国工程建设标准化协会标准
扩孔自锁锚固技术规程
Technical specification for counterbore self-locking anchorage
中国计划出版社

▲

2000

4.6

1000 500

24

7.3

14.6m

5 40m 35m 30m 80

60 60 200 15%

2009 8

36 2000

60 48 m

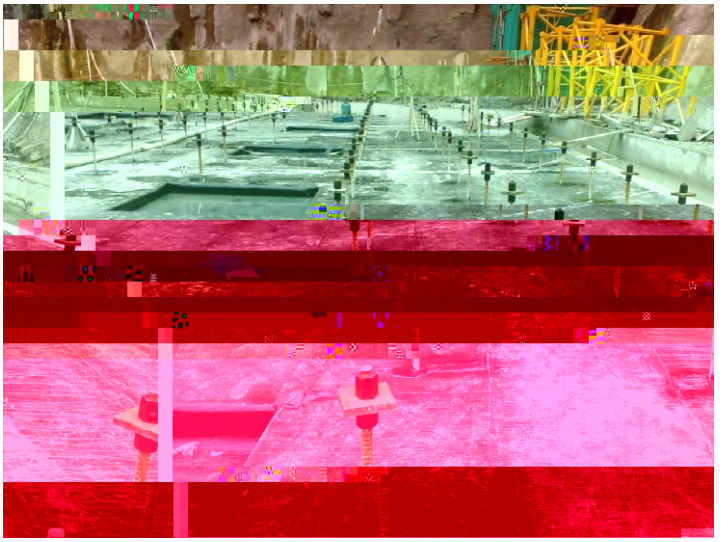
1.45

m

32mm

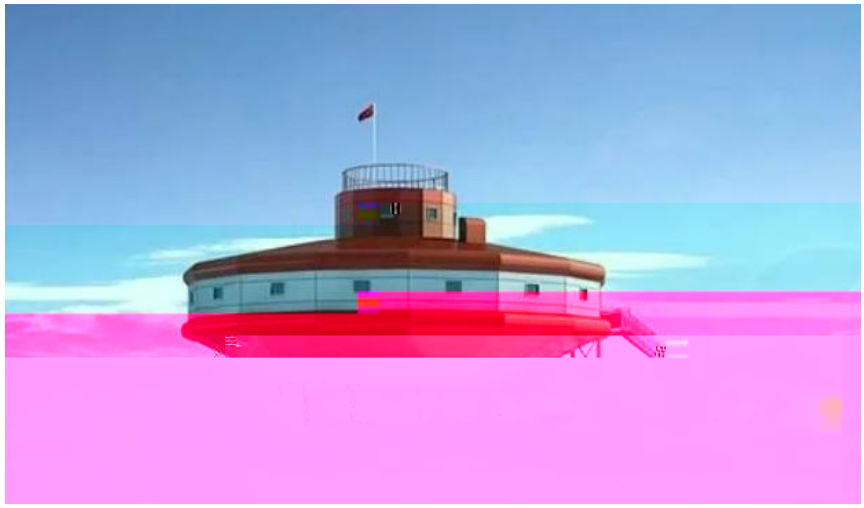
7m 3m 3500

320kN



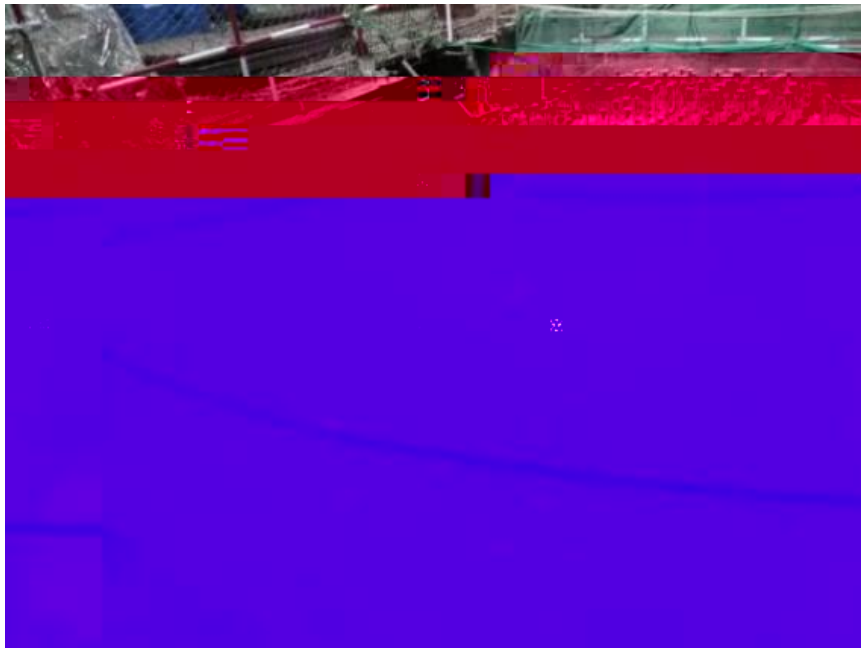
“ ” 44 m^2 16- Âo ă

-90 12



135 200

2019 1280



[redacted]

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6 * ¥ " Ή

2.2 2

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S341 3×φ273×8

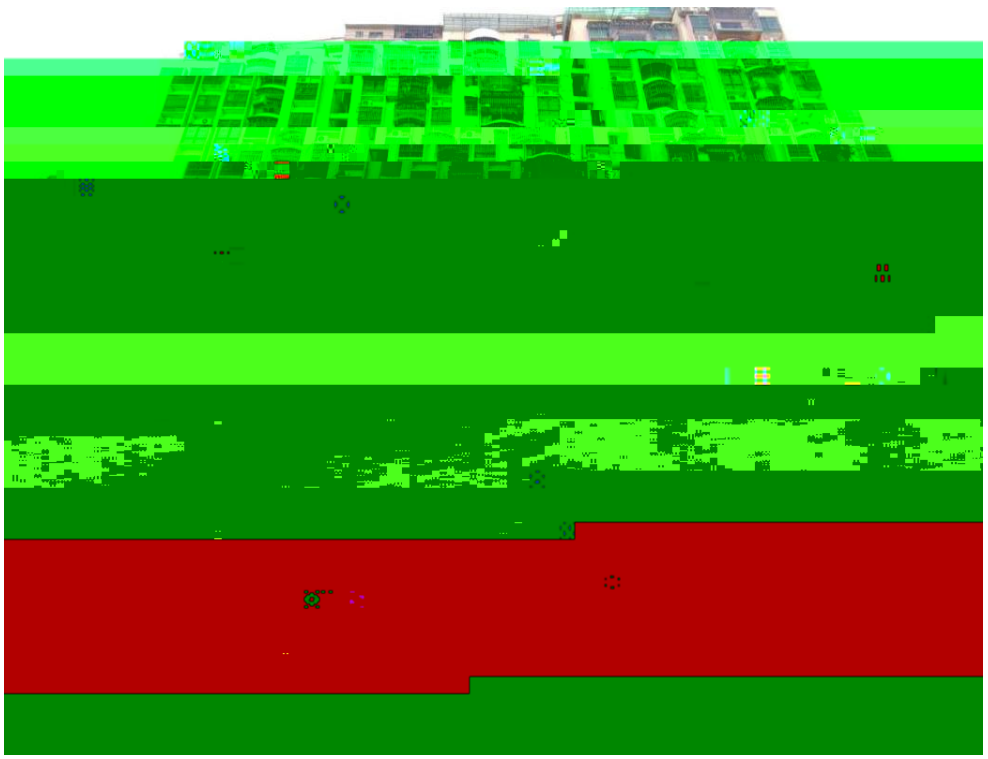
φ1020×12 φ273

1

2

A B 14

2.7 m^2 A B



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3 11 2

3.1 5 1

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2003 -2013 15000m^2

2022 ~2023 UHPA

3200m^2

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▲

3.2 2

1

2

3

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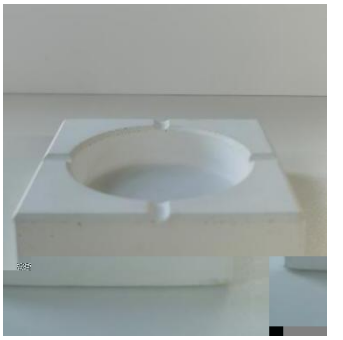

3.3 1

3.4 1

1

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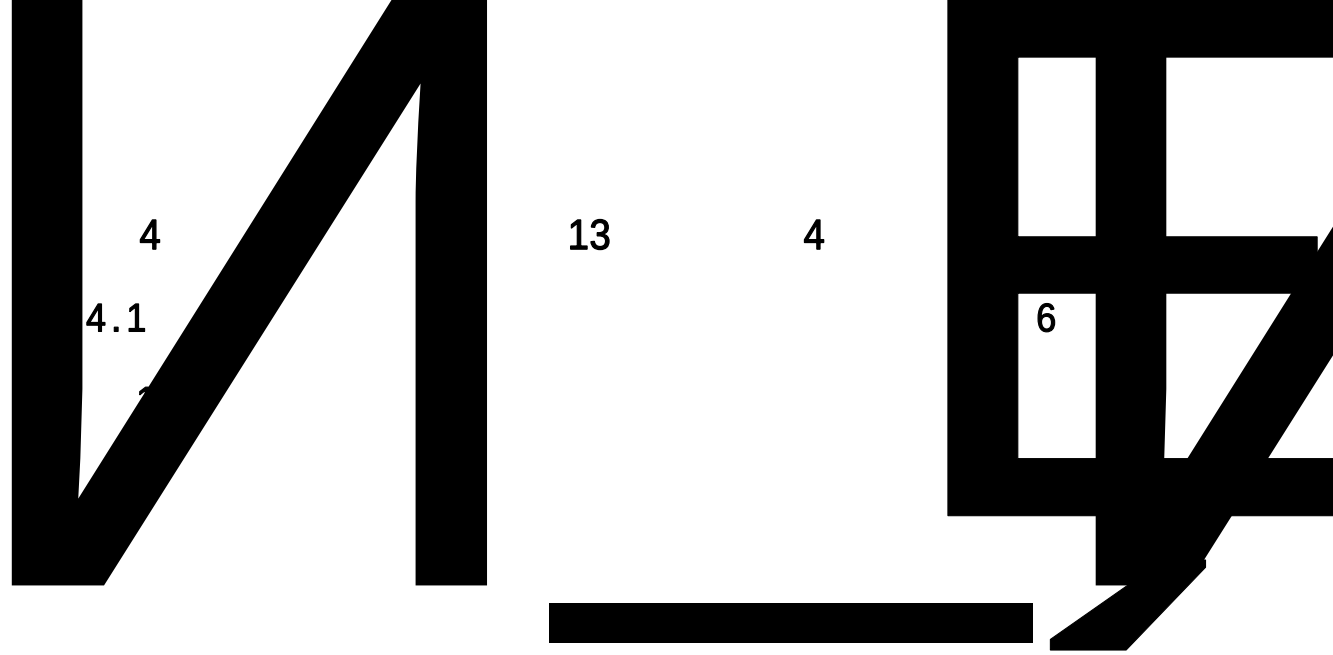
3

4



4 13 4

4.1 6

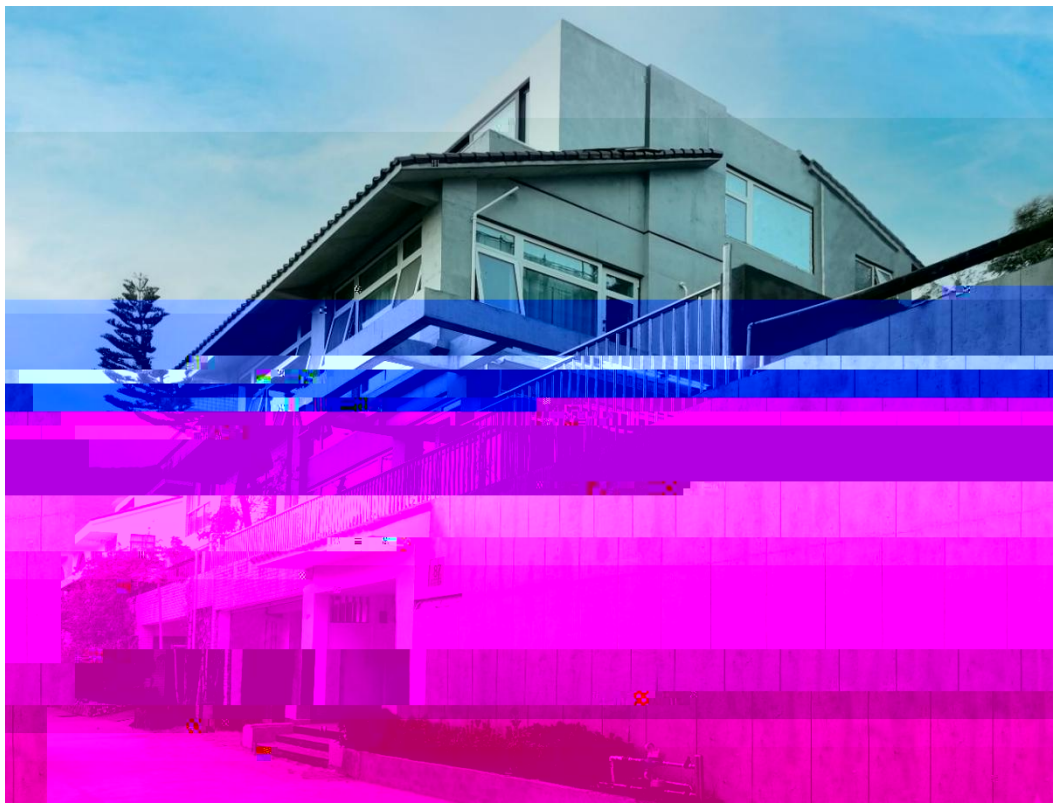
4.2 6 3

1

2

80mm

2009 2020



4.3 1

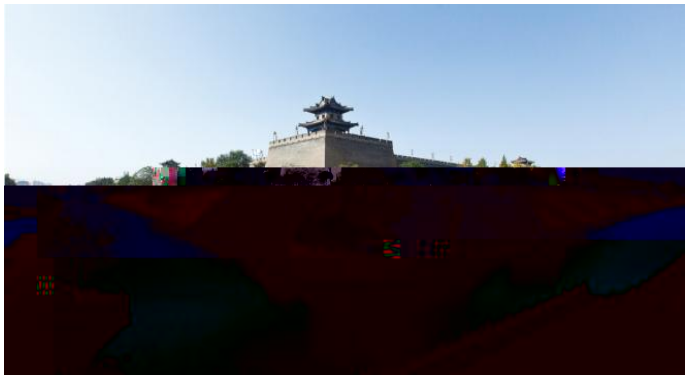
1

2

2012 ~2020 90%

2000

2000



5 50 23

4 14

5.1 28 13

4 8

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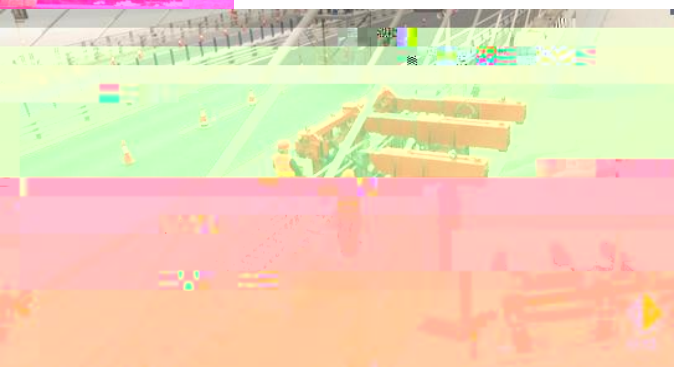
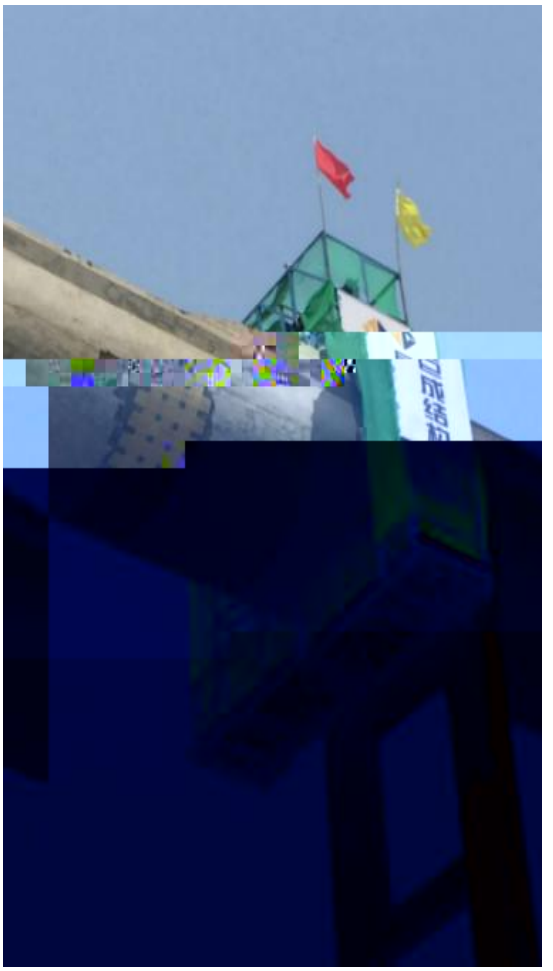
2



5.2 2 1

1

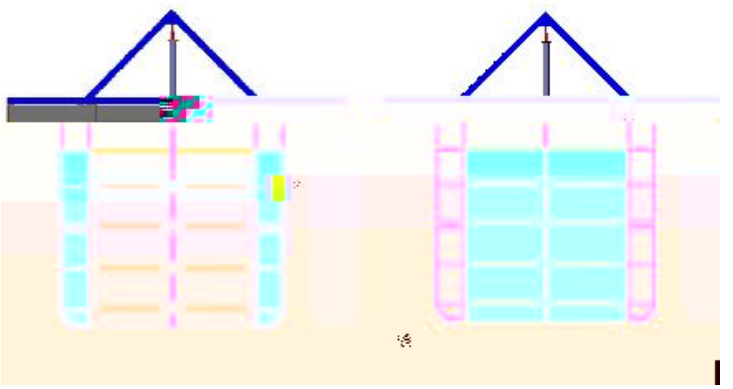
2



5.3 9 5

1

2



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5.4 8 4

1 1/10

2 3 120 °

5m/s 27m

9m 1.2m 3m

5.5 2

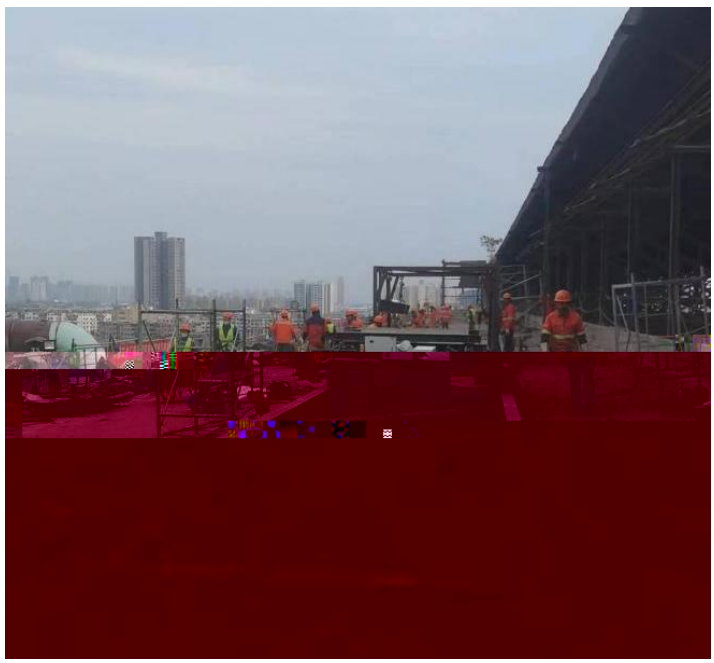
1

2

3

318m 35.73m 41.24m

18696m^2 1965 2023



5.6 1

1