

茲證明  
EMPRESA  
COMPANY

中山市堅正水泥預製件有限公司  
ZHONG SHAN JIAN ZHENG PRECAST CONCRETE CO., LTD

持有證書  
Certificado N°  
Certificate No.

發佈號  
Emissão n° 4  
Issue n.

有效期 data/date  
2021年5月18日  
18<sup>th</sup> May 2021

至 válido até/valid until  
2023年5月17日  
17<sup>th</sup> May 2023

所列產品  
Produto  
Product

預拌混凝土系列 F01：  
● 混凝土強度級別為 B45；  
● 坍度級別為 S3  
本混凝土系列的具體內容須參照本證書之附件。  
**Ready-mixed Concrete Family F01**  
● strength class B45;  
● slump class S3  
*Detailed information regarding this family shall refer to the appendix of this certificate.*

符合  
em conformidade com  
in conformity with

預拌混凝土認證細則(文件編號: LECM/RC/05)  
Certification Rules for Ready-mixed Concrete (Document no. LECM/RC/05)

廠址  
Fábrica  
Factory

廣東省中山市火炬開發區橫門水道東側馬安村圍墾石場  
Ma'an village, Torch Development Zone, Zhongshan city, Guangdong province

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Tem autorização para utilizar o logotipo de certificação do LECM  
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A actualização do certificado deve ser verificada na página do LECM.  
The updated status of the certificate shall be checked in LECM website.



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Este certificado é emitido pelo LECM de acordo com o Despacho no. 56/SATOP/98 do Governo de Macau.  
This certificate is issued by LECM in accordance with the Dispatch no. 56/SATOP/98 of Macao Government.

澳門土木工程實驗室  
Pelo Laboratório de Engenharia Civil de Macau  
For and on behalf of the Civil Engineering Laboratory of Macau

董事會主席 Presidente da Direcção  
President of the Board of Directors

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**預拌混凝土認證證書附件(版本號 A)****Appendix of Ready-mixed Concrete Certificate (Version no. A)**

證書編號 **P8872** 發佈號 **4**  
Cert. no. Issue no.

公司名稱 **中山市堅正水泥預製件有限公司**  
Company: **ZHONG SHANG JIAN ZHENG PRECAST CONCRETE CO., LTD**

廠址 **廣東省中山市火炬開發區橫門水道東側馬安村圍墾石場**  
Factory address: **Ma'an village, Torge Development Zone, Zhongshan city, Guangdong province**

證書有效期由 **2021年5月18日** 至 **2023年5月17日**  
effected since : **18<sup>th</sup> May 2021** to **17<sup>th</sup> May 2023**

**預拌混凝土系列 F01 的具體內容**

- 所使用廣東清新水泥有限公司生產的硅酸鹽水泥種類一級別 52.5;
  - 礦渣粉最大摻量為水泥量的 50%;
  - 粗骨料為花崗岩質碎石, 最大骨料粒徑 20mm, 細骨料為碎石粉;
  - 使用高效減水劑;
  - 來自中山公共供水系統的水作為拌合水;
  - 混凝土強度級別為 B45;
  - 坍度級別為 S3
- 參考混凝土為 B45 強度級別

**Detailed information about Ready-mixed Concrete Family F01**

- with Portland Cement Type I 52.5 manufactured by Guangdong Qingxin Cement Company Limited;
- GGBS maximum content 50% of cement;
- crushed granitic stone with maximum size 20mm as coarse aggregate, crushed stone fine as fine aggregate;
- superplasticizer as admixture;
- mixing water from Zhongshan public water supply;
- strength class B45;
- slump class S3

The reference concrete is strength class B45

發佈於 2021 年 6 月 1 日

Issued on 1<sup>st</sup> June 2021

澳門土木工程實驗室董事會主席

President of the Board of Directors of the Civil Engineering Laboratory of Macau