



澳門土木工程實驗室

LABORATÓRIO DE ENGENHARIA CIVIL DE MACAU  
Civil Engineering Laboratory of Macau

茲證明  
EMPRESA  
COMPANY

持有證書  
Certificado N°  
Certificate No.

所列產品  
Produto  
Product

符合  
em conformidade com  
in conformity with

廠址  
Fábrica  
Factory

快捷混凝土有限公司  
FAST CONCRETE LIMITED

P8895 發佈號  
Emissão n° 3  
Issue n.

有效期 data/date  
2023 年 7 月 19 日  
19<sup>th</sup> July 2023

至 válido até/valid until  
2025 年 7 月 18 日  
18<sup>th</sup> July 2025

預拌混凝土系列 F09 :

- 混凝土強度級別為 B50 至 B60;
- 坍度級別為 S4

本混凝土系列的具體內容須參照本證書之附件。

Ready-mixed Concrete Family F09

- strength class B50 to B60;
- slump class S4

Detailed information regarding this family shall refer to the appendix of this certificate.

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)

路環樟樹街及榕樹街 G5 地段

Rua Arvores do Pagode near Rua das Caoforeiras Lote G5, Coloane

允許使用澳門土木工程實驗室認證標誌

Tem autorização para utilizar o logotipo de certificação do LECM

Has license to use LECM certification logo

請瀏覽LECM網站確認認證證書的最新狀態。

A actualização do certificado deve ser verificada na página do LECM.

The updated status of the certificate shall be checked in LECM website.



本證書根據澳門政府第56/SATOP/98號批示所授予職權，由澳門土木工程實驗室簽發。

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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證書

CERTIFICATE

www.lecm.org.mo



## 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<br>Cert. no.          | <b>P8895</b>                                                                      | 發佈號<br>Issue no. | <b>3</b>                                             |
| 公司名稱<br>Company:           | <b>快捷混凝土有限公司<br/>FAST CONCRETE LIMITED</b>                                        |                  |                                                      |
| 廠址<br>Factory address:     | 路環樟樹街及榕樹街 G5 地段<br>Rua Arvores do Pagode near Rua das Caforeiras Lote G5, Coloane |                  |                                                      |
| 證書有效期由<br>effected since : | <b>2023 年 7 月 19 日<br/>19<sup>th</sup> July 2023</b>                              | 至<br>to          | <b>2025 年 7 月 18 日<br/>18<sup>th</sup> July 2025</b> |

#### 預拌混凝土系列 F09 的具體內容

- 所使用 Tokuyama Corporation Tokuyama Factory - Nanyo Plant 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 35%;
- 粗骨料為花崗岩質碎石, 最大骨料粒徑 20mm, 細骨料為石粉;
- 使用高效減水劑;
- 來自澳門公共供水系統的水作為拌合水;
- 混凝土強度級別為 B50 至 B60;
- 坍度級別為 S4

參考混凝土為 B50 強度級別

#### Detailed information about Ready-mixed Concrete Family F09

- with Portland Cement Type I 52.5 manufactured by Tokuyama Corporation Tokuyama Factory – Nanyo Plant.;
- GGBS maximum content 35% of cement;
- crushed granitic stone with maximum size 20mm as coarse aggregate, granitic crushed stone fine as fine aggregate;
- Super plasticizer as admixture;
- mixing water from Macao public water supply;
- strength class B50 to B60;
- slump class S4

The reference concrete is strength class B50

發佈於 2023 年 8 月 28 日

Issued on 28<sup>th</sup> August 2023

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