



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

廣州萬友砦結構構件有限公司
GUANGZHOU WANYOU CONCRETE STRUCTURE CO., LTD

持有證書
Certificado N°
Certificate No.

P8926 發佈號
Emissão n° 2
Issue n.

有效期 data/date
2025 年 8 月 25 日
25th August 2025

至 válido até/valid until
2025 年 11 月 24 日
24th November 2025

所列產品
Produto
Product

預拌混凝土系列 F02 :

- 混凝土強度級別為 B45;
- 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 F02

- strength class B45;
- slump class S4

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

廣東省廣州市番禺區石樓鎮清流村天六工業路 11 號
No. 11, Tian Liu Gongye Road, Qingliu Village, Shilou Town, Panyu District,
Guangzhou City, Guangdong Province

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網站或掃描QR碼獲取此認證證書的最新狀態。

A atualização do certificado deve ser verificada na página do LECM, ou fazer a leitura do código QR.
The updated status of the certificate shall be checked in LECM website or scanning the QR code.



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

澳門土木工程實驗室不會對在本檢定計劃下的產品之使用負上任何責任。本證書為澳門土木工程實驗室所擁有，當本實驗室有要求收回時應當發還。

Não pode ser imputada ao LECM qualquer responsabilidade pela utilização dos produtos abrangidos por este esquema de certificação. Este certificado é propriedade do LECM e deve ser devolvido sempre que solicitado.

LECM undertakes no responsibility for the utilization of the products contained in this certification scheme. This certificate is a property of LECM and shall be returned when required.

LECM Mod.218 - 2024.000515

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 Cert. no.	P8926	發佈號 Issue no.	2
公司名稱 Company:	廣州萬友砦結構構件有限公司 GUANGZHOU WANYOU CONCRETE STRUCTURE CO., LTD		
廠址 Factory address:	廣東省廣州市番禺區石樓鎮清流村天六工業路 11 號 No. 11, Tian Liu Gongye Road, Qingliu Village, Shilou Town, Panyu District, Guangzhou City, Guangdong Province		
證書有效期由 effected since :	2025 年 8 月 25 日 25th August 2025	至 to	2025 年 11 月 24 日 24th November 2025

預拌混凝土系列 F02 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;
- 粉煤灰最大摻量為水泥量的 11%;
- 礦渣粉最大摻量為水泥量的 15%;
- 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;
- 來自廣州番禺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 S4

參考混凝土為 B45 強度級別

Detailed information about Ready-mixed Concrete Family F02

- with Portland Cement Type I 52.5 manufactured by Guangdong Qingxin Cement Company Limited;
- PFA maximum content of 11% cement;
- GGBS maximum content of 15% cement;
- crushed granitic stone with maximum size 20mm as coarse aggregate, crushed stone fine as fine aggregate;
- superplasticizer as admixture;
- mixing water from Guangzhou Panyu public water supply;
- strength class B45;
- slump class S4

The reference concrete is strength class B45

發佈於 2025 年 8 月 21 日

Issued on 21st August 2025

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