

# Opinion Statement

## Product Carbon Footprint Verification Opinion Statement

This is to verify that: Taiwan Cement Corporation  
Taipei Product Plant  
No. 310, Sec. 1, Datong Rd.  
Xizhi Dist., New Taipei City  
221006 Taiwan

台灣水泥股份有限公司  
台北水泥製品廠  
臺灣新北市汐止區  
大同路一段 310 號  
221006

Holds Statement No: PCFV 777033

As a result of carrying out the verification of product life cycle greenhouse gas emissions, it is the opinion of BSI with reasonable assurance that:

- The product carbon footprint with the declared unit of one cubic meter series ready-mixed concrete is verified as following table.
- No material misstatements in this product life cycle greenhouse gas emission statement were revealed.

The product life cycle GHG data quality was verified to be acceptable against the requirements of ISO 14067:2018.

This statement shall be valid for a maximum period of two years after the latest issue date on this certificate. Should there be a change in the life cycle of the product whose GHG emissions are being assessed, the validity of this opinion statement will cease.

For and on behalf of BSI:



Managing Director BSI Taiwan, Peter Pu

Originally Registration Date: 2022-11-03

Effective Date: 2022-11-03

Latest Revision Date: 2022-11-03

Expiry Date: 2024-11-02

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| Location  | Verification Information   |
|---|--|
| Taiwan Cement Corporation<br>Taipei Product Plant<br>No. 310, Sec. 1, Datong Rd.<br>Xizhi Dist., New Taipei City<br>221006 Taiwan<br>台灣水泥股份有限公司<br>台北水泥製品廠<br>臺灣新北市汐止區<br>大同路一段 310 號<br>221006 | The product carbon footprint with the declared unit of one cubic meter series ready-mixed concrete is verified as following table. |

Additional information

Product related information is as follows:

- System boundary for this product: Cradle to Gate  
The product system boundary is consistent with its system boundary definition in the PCF report for product carbon footprint, which involves the acquisition of materials, process activity and the transportation of materials in the product life cycle.
- The data in this product life cycle greenhouse gas inventory report is from 2021-01-01 to 2021-12-31.
- The site-specific data include related facilities from its own processes under the operational control of the organization and individual processes under the financial or operational control of the organization undertaking the CFP study.
- The secondary data include relative factors from EPA Carbon Footprint Calculation Platform and LCA database SimaPro 9.4.0 ecoinvent 3.8.

Originally Registration Date: 2022-11-03

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Latest Revision Date: 2022-11-03

Expiry Date: 2024-11-02

台北水泥製品廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1000psi               | 156.05   |
|  | 1142psi               | 154.21   |
|  | 1500psi               | 165.45   |
|  | 2000psi               | 190.81   |
|  | 2500psi               | 183.88   |
|  | 3000psi               | 214.51   |
|  | 3500psi               | 249.94   |
|  | 4000psi               | 250.09   |
|  | 4500psi               | 284.71   |
|  | 5000psi               | 285.90   |
|  | 6000psi               | 311.50   |
|  | 7000psi               | 344.05   |
|  | 8000psi               | 380.08   |
|  | 10000psi              | 572.22   |

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桃園分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 113.52   |
|  | 2000psi               | 148.95   |
|  | 2500psi               | 183.17   |
|  | 3000psi               | 194.88   |
|  | 3500psi               | 212.36   |
|  | 4000psi               | 230.40   |
|  | 4500psi               | 257.46   |
|  | 5000psi               | 317.17   |
|  | 6000psi               | 320.86   |
|  | 7000psi               | 316.45   |
|  | 8000psi               | 519.72   |



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中壢分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1142psi               | 140.31   |
|  | 1500psi               | 119.01   |
|  | 2000psi               | 150.15   |
|  | 2500psi               | 144.18   |
|  | 3000psi               | 206.47   |
|  | 3500psi               | 197.53   |
|  | 4000psi               | 238.78   |
|  | 4500psi               | 320.36   |
|  | 5000psi               | 289.19   |
|  | 6000psi               | 336.96   |
|  | 7000psi               | 338.10   |
|  | 8000psi               | 402.46   |



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土城分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 143.78   |
|  | 2000psi               | 216.65   |
|  | 2500psi               | 193.59   |
|  | 3000psi               | 236.26   |
|  | 3500psi               | 235.89   |
|  | 4000psi               | 286.01   |
|  | 4500psi               | 299.36   |
|  | 5000psi               | 301.38   |
|  | 6000psi               | 344.12   |
|  | 7000psi               | 396.07   |
|  | 8000psi               | 421.44   |



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八德分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 101.14   |
|  | 2000psi               | 141.18   |
|  | 2500psi               | 145.83   |
|  | 3000psi               | 195.74   |
|  | 3500psi               | 196.37   |
|  | 4000psi               | 220.07   |
|  | 4500psi               | 239.76   |
|  | 5000psi               | 294.56   |
|  | 6000psi               | 300.79   |
|  | 7000psi               | 323.53   |



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龜山分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1000psi               | 89.07  |
|  | 1500psi               | 93.33  |
|  | 2000psi               | 151.57   |
|  | 2500psi               | 146.41   |
|  | 3000psi               | 232.19   |
|  | 3500psi               | 227.35   |
|  | 4000psi               | 241.16   |
|  | 4500psi               | 303.96   |
|  | 5000psi               | 303.09   |
|  | 6000psi               | 306.68   |
|  | 7000psi               | 374.96   |
|  | 8000psi               | 357.71   |



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新竹分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 116.97   |
|  | 2000psi               | 164.14   |
|  | 2500psi               | 168.08   |
|  | 3000psi               | 187.99   |
|  | 3500psi               | 205.43   |
|  | 4000psi               | 261.35   |
|  | 4500psi               | 267.75   |
|  | 5000psi               | 310.04   |
|  | 6000psi               | 326.05   |
|  | 7000psi               | 369.00   |
|  | 8000psi               | 487.43   |



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宜蘭分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1000psi               | 101.68   |
|  | 1500psi               | 107.48   |
|  | 2000psi               | 152.36   |
|  | 2500psi               | 149.75   |
|  | 3000psi               | 175.50   |
|  | 3500psi               | 191.00   |
|  | 4000psi               | 246.86   |
|  | 4500psi               | 255.57   |
|  | 5000psi               | 329.68   |
|  | 6000psi               | 427.12   |



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桃園二廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1142psi               | 127.74   |
|  | 2000psi               | 162.64   |
|  | 2500psi               | 150.18   |
|  | 3000psi               | 203.14   |
|  | 3500psi               | 218.19   |
|  | 4000psi               | 248.80   |
|  | 4500psi               | 253.65   |
|  | 5000psi               | 321.18   |
|  | 6000psi               | 344.74   |
|  | 7000psi               | 317.95   |
|  | 8000psi               | 460.05   |



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中壢二廠

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|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 2000psi               | 156.79   |
|  | 2500psi               | 153.21   |
|  | 3000psi               | 206.40   |
|  | 3500psi               | 206.76   |
|  | 4000psi               | 221.36   |
|  | 4500psi               | 247.25   |
|  | 5000psi               | 269.07   |
|  | 6000psi               | 317.84   |
|  | 7000psi               | 303.14   |



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花蓮工廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 2000psi               | 153.25   |
|  | 2500psi               | 185.50   |
|  | 3000psi               | 214.84   |
|  | 3500psi               | 243.31   |
|  | 4000psi               | 243.49   |
|  | 5000psi               | 282.57   |
|  | 6000psi               | 295.03   |



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# Opinion Statement

## Product Carbon Footprint Verification Opinion Statement

This is to verify that: Taiwan Cement Corporation  
Taichung Product Plant  
No. 785, Sec. 3, Zhongqing Rd.  
Daya Dist., Taichung City  
428412, Taiwan

台灣水泥股份有限公司  
台中水泥製品廠  
臺灣台中市大雅區  
中清路三段 785 號  
428412

Holds Statement No: PCFV 779465

As a result of carrying out the verification of product life cycle greenhouse gas emissions, it is the opinion of BSI with reasonable assurance that:

- The product carbon footprint with the declared unit of one cubic meter series ready-mixed concrete is verified as following table.
- No material misstatements in this product life cycle greenhouse gas emission statement were revealed.

The product life cycle GHG data quality was verified to be acceptable against the requirements of ISO 14067:2018.

This statement shall be valid for a maximum period of two years after the latest issue date on this certificate. Should there be a change in the life cycle of the product whose GHG emissions are being assessed, the validity of this opinion statement will cease.

For and on behalf of BSI:

Managing Director BSI Taiwan, Peter Pu

Originally Registration Date: 2022-11-29

Effective Date: 2022-11-29

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| Location   | Verification Information   |
|--|--|
| Taiwan Cement Corporation<br>Taichung Product Plant<br>No. 785, Sec. 3, Zhongqing Rd.<br>Daya Dist., Taichung City<br>428412, Taiwan<br>台灣水泥股份有限公司<br>台中水泥製品廠<br>臺灣台中市大雅區<br>中清路三段 785 號<br>428412 | The product carbon footprint with the declared unit of one cubic meter series ready-mixed concrete is verified as following table. |

Additional information

Product related information is as follows:

- System boundary for this product: Cradle to Gate  
The product system boundary is consistent with its system boundary definition in the PCF report for product carbon footprint, which involves the acquisition of materials, process activity and the transportation of materials in the product life cycle.
- The data in this product life cycle greenhouse gas inventory report is from 2021-01-01 to 2021-12-31.
- The site-specific data include related facilities from its own processes under the operational control of the organization and individual processes under the financial or operational control of the organization undertaking the CFP study.
- The secondary data include relative factors from EPA Carbon Footprint Calculation Platform and LCA database SimaPro 9.4.0 ecoinvent 3.8.

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台中水泥製品廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1000psi               | 107.57   |
|  | 1500psi               | 117.21   |
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|  | 2500psi               | 167.71   |
|  | 3000psi               | 183.89   |
|  | 3500psi               | 192.18   |
|  | 4000psi               | 204.09   |
|  | 4500psi               | 231.20   |
|  | 5000psi               | 251.77   |
|  | 6000psi               | 337.39   |
|  | 6500psi               | 292.82   |
|  | 7000psi               | 358.98   |
|  | 8000psi               | 392.07   |
|  | 10000psi              | 412.73   |

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大肚分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1000psi               | 124.14   |
|  | 1500psi               | 101.57   |
|  | 2000psi               | 167.94   |
|  | 2500psi               | 178.90   |
|  | 3000psi               | 191.26   |
|  | 3500psi               | 197.26   |
|  | 4000psi               | 221.17   |
|  | 4500psi               | 227.64   |
|  | 5000psi               | 249.69   |
|  | 6000psi               | 361.17   |
|  | 7000psi               | 382.07   |
|  | 8000psi               | 409.55   |



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太平分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1000psi               | 101.15   |
|  | 1500psi               | 100.47   |
|  | 2000psi               | 152.87   |
|  | 2500psi               | 151.80   |
|  | 3000psi               | 176.68   |
|  | 3500psi               | 188.21   |
|  | 4000psi               | 203.64   |
|  | 4500psi               | 223.92   |
|  | 5000psi               | 239.05   |
|  | 6000psi               | 318.92   |
|  | 7000psi               | 363.88   |
|  | 8000psi               | 385.54   |



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草屯分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 2000psi               | 157.84   |
|  | 2500psi               | 159.40   |
|  | 3000psi               | 187.11   |
|  | 3500psi               | 198.18   |
|  | 4000psi               | 215.47   |
|  | 5000psi               | 256.36   |
|  | 6000psi               | 252.02   |



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神岡分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1000psi               | 99.22  |
|  | 1500psi               | 90.92  |
|  | 2000psi               | 162.74   |
|  | 2500psi               | 141.90   |
|  | 3000psi               | 178.78   |
|  | 3500psi               | 192.30   |
|  | 4000psi               | 197.78   |
|  | 4500psi               | 220.40   |
|  | 5000psi               | 253.14   |
|  | 5500psi               | 252.88   |
|  | 6000psi               | 295.08   |
|  | 7000psi               | 398.36   |
|  | 8000psi               | 408.05   |
|  | 10000psi              | 475.46   |



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# Opinion Statement

## Product Carbon Footprint Verification Opinion Statement

This is to verify that: Taiwan Cement Corporation  
Kaohsiung Cement Products Plant  
No. 16, Gongye 1st Rd., Renwu Dist.  
Kaohsiung City 814036  
Taiwan

台灣水泥股份有限公司  
高雄水泥製品廠  
臺灣高雄市  
仁武區工業一路 16 號  
814036

Holds Statement No: PCFV 780951

As a result of carrying out the verification of product life cycle greenhouse gas emissions, it is the opinion of BSI with reasonable assurance that:

- The product carbon footprint with the declared unit of one cubic meter series ready-mixed concrete is verified as following table.
- No material misstatements in this product life cycle greenhouse gas emission statement were revealed.

The product life cycle GHG data quality was verified to be acceptable against the requirements of ISO 14067:2018.

This statement shall be valid for a maximum period of two years after the latest issue date on this certificate. Should there be a change in the life cycle of the product whose GHG emissions are being assessed, the validity of this opinion statement will cease.

For and on behalf of BSI:



Managing Director BSI Taiwan, Peter Pu

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| Location   | Verification Information   |
|--|--|
| Taiwan Cement Corporation<br>Kaohsiung Cement Products Plant<br>No. 16, Gongye 1st Rd., Renwu Dist.<br>Kaohsiung City 814036<br>Taiwan<br>台灣水泥股份有限公司<br>高雄水泥製品廠<br>臺灣高雄市<br>仁武區工業一路 16 號<br>814036 | The product carbon footprint with the declared unit of one cubic meter series ready-mixed concrete is verified as following table. |

Additional information

Product related information is as follows:

- System boundary for this product: Cradle to Gate  
The product system boundary is consistent with its system boundary definition in the PCF report for product carbon footprint, which involves the acquisition of materials, process activity and the transportation of materials in the product life cycle.
- The data in this product life cycle greenhouse gas inventory report is from 2021-01-01 to 2021-12-31.
- The site-specific data include related facilities from its own processes under the operational control of the organization and individual processes under the financial or operational control of the organization undertaking the CFP study.
- The secondary data include relative factors from EPA Carbon Footprint Calculation Platform and LCA database SimaPro 9.4.0 ecoinvent 3.8.

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高雄水泥製品廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 116.05   |
|  | 2000psi               | 159.56   |
|  | 2500psi               | 170.33   |
|  | 3000psi               | 196.02   |
|  | 3500psi               | 200.94   |
|  | 4000psi               | 236.57   |
|  | 4500psi               | 250.16   |
|  | 5000psi               | 286.41   |
|  | 6000psi               | 299.27   |
|  | 7000psi               | 341.90   |
|  | 8000psi               | 328.06   |



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楠梓分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 107.05   |
|  | 2000psi               | 155.15   |
|  | 2500psi               | 160.00   |
|  | 3000psi               | 189.72   |
|  | 3500psi               | 200.31   |
|  | 4000psi               | 230.43   |
|  | 4500psi               | 237.15   |
|  | 5000psi               | 270.16   |
|  | 5500psi               | 246.82   |
|  | 6000psi               | 284.81   |
|  | 7000psi               | 313.62   |
|  | 8000psi               | 339.04   |
|  | 10000psi              | 404.29   |



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小港分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 95.83  |
|  | 2000psi               | 178.94   |
|  | 2500psi               | 151.12   |
|  | 3000psi               | 188.78   |
|  | 3500psi               | 188.25   |
|  | 4000psi               | 240.85   |
|  | 4500psi               | 228.82   |
|  | 5000psi               | 305.32   |
|  | 6000psi               | 269.39   |
|  | 7000psi               | 306.33   |



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路竹分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 107.80   |
|  | 2000psi               | 171.25   |
|  | 2500psi               | 199.50   |
|  | 3000psi               | 196.38   |
|  | 3500psi               | 203.16   |
|  | 4000psi               | 240.99   |
|  | 4500psi               | 303.98   |
|  | 5000psi               | 277.88   |
|  | 6000psi               | 285.34   |
|  | 7000psi               | 335.08   |



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嘉義分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 2000psi               | 153.82   |
|  | 2500psi               | 187.88   |
|  | 3000psi               | 209.77   |
|  | 3500psi               | 230.44   |
|  | 4000psi               | 238.73   |
|  | 4500psi               | 246.06   |
|  | 5000psi               | 272.49   |
|  | 6000psi               | 470.02   |



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台南分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1142psi               | 150.13   |
|  | 2000psi               | 161.40   |
|  | 2500psi               | 177.50   |
|  | 3000psi               | 207.04   |
|  | 3500psi               | 223.98   |
|  | 4000psi               | 245.72   |
|  | 4500psi               | 225.15   |
|  | 5000psi               | 254.29   |
|  | 5500psi               | 243.48   |
|  | 6000psi               | 291.90   |
|  | 7000psi               | 290.73   |

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安平分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1142psi               | 130.35   |
|  | 1500psi               | 158.34   |
|  | 2000psi               | 166.16   |
|  | 2500psi               | 180.67   |
|  | 3000psi               | 205.01   |
|  | 3500psi               | 220.86   |
|  | 4000psi               | 240.62   |
|  | 4500psi               | 233.20   |
|  | 5000psi               | 264.88   |
|  | 6000psi               | 267.83   |
|  | 7000psi               | 301.95   |



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善化分廠

| Declared Unit of Product<br>產品宣告單位                 | Specification<br>產品規格 | Product carbon footprint<br>(kgCO <sub>2</sub> e/Unit) |
|--|-----------------------|--|
| 每立方公尺預拌混凝土<br>one cubic meter ready-mixed concrete | 1500psi               | 143.18   |
|  | 2000psi               | 168.99   |
|  | 2500psi               | 183.60   |
|  | 3000psi               | 203.45   |
|  | 3500psi               | 218.52   |
|  | 4000psi               | 242.91   |
|  | 5000psi               | 273.02   |
|  | 6000psi               | 292.75   |
|  | 8000psi               | 444.97   |



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