

FTSE China 50 Index

v4.7

Contents

Section 1 Introduction	3
Section 2 Management responsibilities	5
Section 3 FTSE Russell Index policies	7
Section 4 Inclusion criteria	9
Section 5 Screens applied to eligible securities	10
Section 6 Periodic review of constituents	12
Section 7 Corporate actions and events	14
Section 8 Industry Classification Benchmark (ICB)	17
Section 9 Index algorithm and calculation method	18
Appendix A Eligible exchange, market segment and exchange rates	19
Appendix B Index & market opening and closing hours	20
Appendix C Index algorithm and calculation method	21
Appendix D Capping methodology	22
Appendix E Status of index	25
Appendix F Further information	26

Section 1

Introduction

1. Introduction

- 1.1 This document sets out the Ground Rules for the construction and management of the FTSE China 50 Index. Copies of the Ground Rules are available from FTSE Russell (see Appendix F) and www.lseg.com/en/ftse-russell/. These Ground Rules should be read in conjunction with the FTSE Global Equity Index Ground Rules which can be accessed using the following link:
[FTSE Global Equity Index Series.pdf](#)
- 1.2 The FTSE China 50 Index is designed to represent the performance of Chinese companies that are listed on the Hong Kong Stock Exchange. H Shares, P Chips and Red Chips are eligible for inclusion in the FTSE China 50 Index. Other China share classes are ineligible. For definitions of Chinese share classes please refer to:
[Guide to Chinese Share Classes.pdf](#)
- 1.3 The FTSE China 50 Index does not take account of ESG factors in its index design.
- 1.4 The FTSE China 50 Index is calculated and published in Hong Kong dollars and US dollars.
- 1.5 The FTSE China 50 Index is calculated in real-time and published on an intra-second streaming basis.
- 1.6 A Total Return Index is published and includes income based on ex dividend adjustments. All dividends are applied as declared in the FTSE Total Return Index. A net of tax Total Return Index is also calculated.
- 1.7 The FTSE China 50 Index is capped as detailed in Appendix D.
- 1.7.1 The base currency of the index series is Hong Kong dollars (HKD). Index values may also be published in other currencies.
- 1.8 IOSCO**
- 1.8.1 FTSE International Limited (FTSE) considers that the FTSE China Index Series meets the IOSCO Principles for Financial Benchmarks as published in July 2013.
Full details can be accessed at www.iosco.org.
Details of FTSE Russell's Statement of Compliance with respect to the IOSCO Principles can be accessed using the following link:
[IOSCO Statement of Compliance](#).
- 1.9 The following variants are, or if requested may be, calculated for certain indices within the index series:
- Capital and total return indices.
 - Net total return indices based on specified withholding tax rates.
 - Indices calculated in currencies other than the base currency (HKD).
 - Currency hedged indices.

- Capped indices; for full details see the FTSE Russell Capping Methodology guide.

Additional customised variants can be calculated on request including indices with industry, country and sector exclusions. Selected indices are calculated and disseminated on a real time basis.

- 1.10 FTSE Russell hereby notifies users of the index that it is possible that factors, including external factors beyond the control of FTSE Russell, may necessitate changes to, or the cessation, of the index and therefore, any financial contracts or other financial instruments that reference the index or investment funds which use the index to measure their performance should be able to withstand, or otherwise address the possibility of changes to, or cessation of, the index.
- 1.11 Index users who choose to follow this index or to buy products that claim to follow this index should assess the merits of the index's rules-based methodology and take independent investment advice before investing their own or client funds. No liability whether as a result of negligence or otherwise is accepted by FTSE Russell or any members of the FTSE Russell Policy Advisory Board or FTSE Russell Asia Pacific Regional Equity Advisory Committee (or any person concerned with the preparation or publication of these Ground Rules) for any losses, damages, claims and expenses suffered by any person as a result of:
- any reliance on these Ground Rules, and/or
 - any inaccuracies in these Ground Rules, and/or
 - any non-application or misapplication of the policies or procedures described in these Ground Rules, and/or
 - any inaccuracies in the compilation of the Index or any constituent data.

Section 2

Management responsibilities

2. Management responsibilities

2.1 FTSE International Limited (FTSE)

2.1.1 FTSE is the benchmark administrator of the index.¹

2.1.2 FTSE is responsible for the daily calculation, production and operation of the index and will:

- maintain records of the index weightings of all constituents;
- make changes to the constituents and their weightings in accordance with the Ground Rules;
- carry out the periodic index reviews of the Index and apply the changes resulting from the reviews as required by the Ground Rules;
- publish changes to the constituent weightings resulting from their ongoing maintenance and the periodic reviews;
- disseminate the index.

2.2 FTSE Russell External Advisory Committee

2.2.1 To assist in the oversight of the indices FTSE Russell has established the FTSE Russell Asia Pacific Regional Equity Advisory Committee.

2.2.2 The Terms of Reference of the FTSE Russell Advisory Committees are set out on the FTSE Russell website.

[Terms-of-Reference](#)

2.3 Status of these Ground Rules

2.3.1 These Ground Rules set out the methodology and provide information about the publication of the FTSE China 50 Index.

2.4 Amendments to these Ground Rules

2.4.1 These Ground Rules shall be subject to regular review (at least once a year) by FTSE Russell to ensure that they continue to best reflect the aims of the index. Any proposals for significant amendments to these Ground Rules will be subject to consultation with FTSE Russell advisory committees and other stakeholders if appropriate. The feedback from these consultations will be considered by the FTSE Russell Index Governance Board before approval is granted.

¹ The term administrator is used in this document in the same sense as it is defined in [Regulation \(EU\) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds](#) (the European Benchmark Regulation)) and [The Benchmarks \(Amendment and Transitional Provision\) \(EU Exit\) Regulations 2019](#) (the UK Benchmark Regulation).

- 2.4.2 As provided for in the Statement of Principles for FTSE Russell Equity Indices, where FTSE Russell determines that the Ground Rules are silent or do not specifically and unambiguously apply to the subject matter of any decision, any decision shall be based as far as practical on the Statement of Principles. After making any such determination, FTSE Russell shall advise the market of its decision at the earliest opportunity. Any such treatment will not be considered as an exception or change to the Ground Rules, or to set a precedent for future action, but FTSE Russell will consider whether the Rules should subsequently be updated to provide greater clarity.

Section 3

FTSE Russell index policies

3. FTSE Russell index policies

These Ground Rules should be read in conjunction with the following policy documents which can be accessed using the links below:

3.1 Statement of Principles for FTSE Russell Equity Indices (the Statement of Principles)

Indices need to keep abreast of changing markets and the Ground Rules cannot anticipate every eventuality. Where the Rules do not fully cover a specific event or development, FTSE Russell will determine the appropriate treatment by reference to the Statement of Principles which summarises the ethos underlying FTSE Russell's approach to index construction. The Statement of Principles is reviewed annually and any changes proposed by FTSE Russell are presented to the FTSE Russell Policy Advisory Board for discussion before approval by the FTSE Russell Index Governance Board.

The Statement of Principles can be accessed using the following link:

[Statement of Principles.pdf](#)

3.2 Queries, Complaints and Appeals

A constituent or prospective constituent company (or professional advisor acting on behalf of the company), a national organisation or a group of no fewer than ten users of the Indices from different organisations acting in their professional capacity may appeal against decisions taken by FTSE Russell.

FTSE Russell's complaints procedure can be accessed using the following link:

[Benchmark Determination Complaints Handling Policy.pdf](#)

FTSE Russell's Appeal Process can be accessed using the following link:

[Appeals Against Decisions.pdf](#)

3.3 Index Policy for Trading Halts and Market Closures

3.3.1 Guidance for the treatment of index changes in the event of trading halts or market closures can be found using the following link:

[Index Policy for Trading Halts and Market Closures.pdf](#)

3.4 Index Policy in the Event Clients are Unable to Trade a Market or a Security

3.4.1 Details of FTSE Russell's treatment can be accessed using the following link:

[Index Policy in the Event Clients are Unable to Trade a Market or a Security.pdf](#)

3.5 FTSE Russell Treatment of Sanctioned Index Constituents

The document lists the FTSE Russell index constituents that have either been subject to sanctions or are currently subject to sanctions that either restrict or prohibit the trading or holding of the named listed securities. Index constituents that are subject to sanctions are treated in accordance with the FTSE Russell Index Policy Guide, "In the Event Clients are Unable to Trade a Market", section 2.3, "Sanctions are imposed which restrict investment into foreign jurisdictions".

[FTSE Russell Treatment of Sanctioned Index Constituents.pdf](#)

3.6 Recalculation Policy and Guidelines

3.6.1 Where an inaccuracy is identified, FTSE Russell will follow the steps set out in the FTSE Russell Index Recalculation Guidelines when determining whether an index or index series should be recalculated and/or associated data products reissued. Users of the FTSE China 50 Index will be notified through appropriate media.

For further information refer to the FTSE Russell Recalculation Policy and Guidelines document which is available from the FTSE website using the link below or by contacting info@ftserussell.com.

[Recalculation Policy and Guidelines Equity Indices.pdf](#)

3.7 Policy for Benchmark Methodology Changes

3.7.1 Details of FTSE Russell's policy for making benchmark methodology changes can be accessed using the following link:

[Policy for Benchmark Methodology Changes.pdf](#)

3.8 FTSE Russell Governance Framework

3.8.1 To oversee its indices, FTSE Russell employs a governance framework that encompasses product, service and technology governance. The framework incorporates the London Stock Exchange Group's three lines of defence risk management framework and is designed to ensure compliance with the IOSCO Principles for Financial Benchmarks², the European benchmark regulation³, and the UK benchmark regulation⁴. The FTSE Russell Governance Framework can be accessed using the following link:

[FTSE Russell Governance Framework.pdf](#)

3.9 Real Time Status Definitions

3.9.1 Please refer to the following guide for details of real time status definitions for indices which are calculated in real time.

[Real Time Status Definitions.pdf](#)

² IOSCO Principles for Financial Benchmarks Final Report, FR07/13 July 2013.

³ Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds.

⁴ The Benchmarks (Amendment and Transitional Provision) (EU Exit) Regulations 2019.

Section 4

Inclusion criteria

4. Inclusion criteria

4.1 Security inclusion criteria

- 4.1.1 The constituents of the FTSE China 50 Index are derived from the FTSE All-World Index universe and shall be current constituents of this Index. H Shares, P Chips* and Red Chips that are listed on the Hong Kong Stock Exchange are eligible for inclusion in the FTSE China 50 Index subject to conforming with the FTSE All-World Index eligibility criteria (see also [Guide to Chinese Share Classes.pdf](#) and Appendix A)

* A non-constituent P Chip whose associated N Share is already a constituent of the FTSE All-World Index will be eligible for inclusion in the FTSE China 50 Index at the next quarterly review after a minimum 3-month trading period, subject to satisfying all other FTSE All-World Index eligibility criteria. Please note the P Chip will be subject to the FTSE All-World minimum liquidity requirement and will be tested in line with FTSE All-World Semi-Annual Review.

- 4.1.2 Convertible preference shares and loan stocks are excluded until converted.

4.2 Company inclusion criteria

- 4.2.1 The following are regarded as ineligible for inclusion:
- Companies whose business is that of holding equity and other investments (e.g. Investment Trusts) which are classified by the Industry Classification Benchmark as Closed End Investments (30204000) and Open End and Miscellaneous Investment Vehicles (30205000).
 - Limited Liability Partnerships (LLP), Limited Partnerships (LP), Master Limited Partnerships (MLP), Limited Liability Companies (LLC) and Business Development Companies (BDC).
 - Where a stapled unit comprises an eligible security and a non-eligible security (such as non-equity or an Investment Trust structure) the unit will not be eligible for inclusion.

Section 5

Screens applied to eligible securities

5. Screens applied to eligible securities

5.1 Investability weighting screen

Constituents of the FTSE China 50 Index are adjusted for free float and foreign ownership limits.

A. Initial weighting

Companies with a free float of 5% or below are excluded from the index, except where the investable market capitalisation of the security exceeds 10 times the FTSE Global Equity Index Series China regional inclusion percentage level (see the FTSE Global Equity Index Series Ground Rules).

Details on free float restrictions can be accessed using the following link:

[Free Float Restrictions.pdf](#)

Free float example – determining the initial free float:

Shareholder type	Shareholding %
Government controlled	26.65
Corporate Investment	5.52
Employee share incentive scheme	0.76
Director/Senior management holding	0.14
Free float	66.93

The table above shows the free float structure of a company, in particular the restricted shareholders, as highlighted in Rule 5.1. Almost 27% of the company's shares are in the control of the government with a further 5.5% held by a corporate investment. In total the company's restricted shareholders account for 33.07% of its shares. The free float of the company is 66.93% (100 – 33.07).

B. Foreign ownership restrictions

FTSE Russell's index methodology takes account of the restrictions placed on the equity holdings of foreigners in a company where these have been imposed by a government, regulatory authority or the company's constitution.

Further details of the Foreign Ownership Restrictions can be accessed using the following link:

[Foreign Ownership Restrictions and Minimum Foreign Headroom Requirement.pdf](#)

C. Minimum foreign headroom requirement

FTSE Russell defines “foreign headroom” as the percentage of shares available to foreign investors as a proportion of the company’s Foreign Ownership Limit (FOL), i.e. $(FOL - \text{foreign holdings})/FOL$. For example, if a company has a foreign ownership limit, of 49%, of which 39% is held by foreign investors, the foreign headroom will be calculated as 20.41% i.e. $(49\% - 39\%)/49\%$.

Further details of the Minimum Foreign Headroom Requirement can be accessed using the following link:

[Foreign Ownership Restrictions and Minimum Foreign Headroom Requirement.pdf](#)

5.2 Liquidity screen

- 5.2.1 Each security will be tested for liquidity semi-annually in March and September by calculation of its monthly median of daily trading volume. For further details please refer to the FTSE Global Equity Index Series – Guide to Calculation Method for the Median Liquidity Test which can be accessed using the following link:

[Guide to Calculation Methods for GEIS Liquidity.pdf](#)

5.3 Trading screen

- 5.3.1 Existing and non-constituent securities which have not traded on 60 or more trading days during the past year (up to and including the review cut-off date), will not be eligible for index inclusion. Regular/ad-hoc market holidays, and unscheduled market closures will not count towards the total; otherwise, the reason(s) for a security’s non-trading will not be considered. If a security does not have a full year of trading, the 60 day period will be pro-rated according to the number of available trading days passed since its listing. Please note:
- All standard trading days will be incorporated within the calculation (Friday and Sundays as appropriate)
 - Ad-hoc non-standard trading days will not be incorporated within the calculation (e.g. ad-hoc Saturday trading will not be considered)
 - Where a pro-rata calculation is necessary, the number of available trading days on the underlying market during the previous year up to and including the review cut-off date will be used as the basis of the calculation. E.g. Market ABC has 253 available trading days for the annual period to the review cut-off date; therefore the security would not be eligible if for 23.7% $(60/253)$ or more of its available trading days since listing, it did not trade.
 - A security which has been removed from an index as a result of this screen will only be re-considered for inclusion after a period of 12 months from its deletion. For the purposes of index eligibility it will be treated as a new issue.

Section 6

Periodic review of constituents

6. Periodic review of constituents

6.1 Review dates

- 6.1.1 The quarterly review of the FTSE China 50 Index constituents takes place in March, June, September and December. The constituents will be reviewed using data from the close of business on the Monday following the third Friday in February, May, August and November. Where there is a market holiday in either China or Hong Kong on the Monday following the third Friday, the close of business on the last trading day prior to the Monday after the third Friday, where both markets are open, will be used. Any constituent changes will be implemented after the close of business on the third Friday of March, June, September and December.
- 6.1.2 At the quarterly review, the constituents of the FTSE China 50 Index are capped using prices adjusted for corporate actions as at the close of business on the second Friday in March, June, September and December. The capping is implemented after close of business on the third Friday in March, June, September and December based on the constituents, shares in issue and free float on the next trading day following the third Friday of the review month.
- 6.1.3 Quarterly changes are published after the close of business on the Wednesday before the first Friday of March, June, September and December to give users of the index sufficient notification of the changes before their implementation.

6.2 Rules for insertion and deletion at the quarterly review

- 6.2.1 The rules for inserting and deleting companies at the quarterly review are designed to provide stability in the selection of constituents of the FTSE China 50 Index while ensuring that the index continues to be representative of the market by including or excluding those companies which have risen or fallen significantly.
- 6.2.2 At review, all constituents of the FTSE China 50 Index must be existing or pending constituents to the FTSE All-World Index, i.e. the review will take into consideration any constituent changes to the FTSE All-World Index as announced by FTSE Russell and will therefore be conducted before the implementation date of these changes.
- 6.2.3 In determining the full market capitalisation of a company, all share classes are included, while only the eligible share classes are included in the index weighting. Please see [Guide to Chinese Share Classes.pdf](#) for the share class description.
- 6.2.4 A company will be inserted into the FTSE China 50 Index at the periodic review if it rises to 40th position or above when the eligible companies are ranked by full market capitalisation (before the application of any investability weightings).
- 6.2.5 A company in the FTSE China 50 Index will be deleted at the periodic review if it falls to 61st position or below when the eligible companies are ranked by full market capitalisation (before the application of any investability weightings).

- 6.2.6 A constant number of constituents will be maintained for the FTSE China 50 Index. Where a greater number of companies qualify to be inserted in the Index than those qualifying to be deleted (see Rules 6.2.4 and 6.2.5), the lowest ranking constituents presently included in the index will be deleted to ensure that an equal number of companies are inserted and deleted at the periodic review. Likewise, where a greater number of companies qualify to be deleted than those qualifying to be inserted (see Rules 6.2.4 and 6.2.5), the securities of the highest ranking companies which are presently not included in the index will be inserted to match the number of companies being deleted at the periodic review.
- 6.2.7 Where a company is scheduled to be deleted after the periodic review changes have been announced but before they have been implemented, the highest ranking company from the new Reserve List (see Rule 6.3), excluding current index constituents, is selected as the replacement company.
- 6.2.8 The FTSE China 50 Index is capped as detailed in Appendix D. The constituents of the Index normally are capped only at the time of the quarterly review or at the time of a Fast Entry (see Rule 7.6).
- 6.3 Reserve lists**
- 6.3.1 FTSE Russell is responsible for publishing the five highest ranking non-constituents of the FTSE China 50 Index at the time of each quarterly review. This Reserve List will be used in the event that one or more constituents is deleted from the FTSE China 50 Index during the period up to the next quarterly review of the index. Companies on the Reserve List are constituents of the FTSE All-World Index.
- 6.3.2 In the event that all the original Reserve List stocks have been used, the highest ranking non constituent of the eligible Chinese share classes in FTSE All-World index, which is not a current constituent of the FTSE China 50 Index, is selected as the replacement company based on prices two days prior to the deletion of a constituent.

Section 7

Corporate actions and events

7. Corporate actions and events

- 7.1 Full details of changes to constituent companies due to corporate actions and events can be accessed in the Corporate Actions and Events Guide using the following link:

[Corporate Actions and Events Guide.pdf](#)

A Corporate 'Action' is an action on shareholders with a prescribed ex date. The share price will be subject to an adjustment on the ex date. These include the following:

- Capital Repayments
- Rights Issues/Entitlement Offers
- Stock Conversion
- Splits (sub-division)/Reverse splits (consolidation)
- Scrip issues (Capitalisation or Bonus Issue)

A Corporate 'Event' is a reaction to company news (event) that may impact the index depending on the index rules. For example, a company announces a strategic shareholder is offering to sell their shares (secondary share offer) – this could result in a free float weighting change in the index. Where an index adjustment is required FTSE Russell will provide notice advising of the timing of the change.

7.2 Shares in issue

Changes to the number of shares in issue for constituent securities are covered in the [Corporate Actions and Events Guide](#).

7.3 Investability weightings

Changes to free float for constituent securities are covered in the [Corporate Actions and Events Guide](#).

7.4 Removal and replacement

If a constituent is delisted, or ceases to have a firm quotation, or is subject to a takeover offer which has been declared wholly unconditional or has ceased to be a viable constituent as defined by the Ground Rules, it will be removed from the list of constituents and replaced by the highest ranking company by full market capitalisation eligible on the Reserve List (see Rule 6.3) as at the close of the index calculation two days prior to the deletion.

The removal and replacement are implemented simultaneously with the provision of a minimum two days' notice period.

7.5 Mergers, restructuring and complex takeovers

- 7.5.1 If the effect of a merger or takeover is that one constituent is absorbed by another constituent in the FTSE China 50 Index, the resulting company will remain a constituent of the index and a vacancy will be created. This vacancy will be filled by selecting the highest ranking security by full market capitalisation from the Reserve List (see Rule 6.3) as at the close of the index calculation two days prior to the deletion.

- 7.5.2 If a constituent company is taken over by a non-constituent company, the original constituent will be removed and replaced by the highest ranking non-constituent by full market capitalisation on the Reserve List. Any eligible company resulting from the takeover will be eligible to become the replacement company if it is ranked higher than any company on the Reserve List as at the close of the index calculation two days prior to completion of the acquisition, based on the combined full market value of the company after the merger.
- 7.5.3 If a constituent company is split so as to form two or more companies, then the resulting companies will be eligible for inclusion as index constituents in the FTSE China 50 Index based on their respective full market capitalisation(s) i.e. before the application of any investability weighting and if they qualify in all other respects. If a FTSE China 50 Index constituent splits into two or more companies, one or more of these companies may remain in the FTSE China 50 Index. Where one or more of the new companies are eligible to remain in the FTSE China 50 Index, the smallest FTSE China 50 Index constituent(s) will be deleted.
- 7.5.4 The full market capitalisations at close on the first day of trading of the spun-off company will be used to determine continued inclusion. Any changes will then be applied at market close giving two days' notice. Consequently, the FTSE China 50 may have more than 50 companies for three days (or more if the spun-off company does not trade on effective date).

7.6 New issues

- 7.6.1 Where an eligible non constituent of the FTSE China 50 Index undertakes an Initial Public Offering of a new equity security, that security will be eligible for fast entry inclusion to the FTSE China 50 Index providing it meets the following conditions:

- a. if it is a Fast Entry into the FTSE All-World Index
- b. If its full market capitalisation (shares in issue * price) when ranked in descending order is in 20th position or higher.

The full market capitalization will be based on the closing price on the first day of trading and the security's inclusion will be implemented after the close of business on the fifth day of trading.

Please note: Only those shares being offered for sale in the IPO will be included within the index weighting at the time of fast entry inclusion (subject to not being categorised as restricted shares as defined within the Free Float Restrictions document).

Where a fast entrant is added to the FTSE China 50 Index the lowest ranking constituent by full market capitalisation of the FTSE China 50 Index will be selected for removal using the closing prices on the first day of trading and implemented after the close of business on the fifth day of trading.

In the event of the fifth day of trading occurring during the week of the index review, an eligible fast entrant will be added to the index concurrent with the review effective date.

- 7.6.2 Following the announcement of a Fast Entry constituent, the FTSE China 50 Index is capped using prices adjusted for corporate events as at the close of business on the third day of official trading based on the constituents, shares in issue and free float on the next trading day following the fifth day of official trading as detailed in Appendix D.
- 7.6.3 Newly issued securities which do not qualify for early entry under Rule 7.6.1 (but which meet the criteria for eligible securities set out in Section 4) will be eligible for inclusion at the next quarterly review, if large enough to become a constituent of the FTSE China 50 Index at that time. The security may also qualify for inclusion to the FTSE China 50 Index Reserve List (see Rule 6.3).
- 7.6.4 If FTSE Russell decides to include a new security as a constituent security other than as part of the normal periodic review procedure, this decision will be publicly announced at the earliest practicable time.
- 7.6.5 Variable, best effort and direct listing IPOs* will not be considered for fast entry inclusion since FTSE Russell would be:
- unable to confirm if the minimum free float requirement has been met; and
 - unable to assign an accurate free float for the purposes of the index calculation.

- 7.6.6 Variable, best effort and direct listing IPOs will be considered for index inclusion at the next quarterly review if, by the review cut-off date, a public disclosure* (which has been published post IPO) is available confirming the updated shareholder structure. Index inclusion remains subject to meeting all other eligibility criteria. If the post IPO shareholder structure has not been disclosed by the review cut-off date, the evaluation of the company will be deferred to a subsequent quarterly review.

*A public disclosure is typically by way of a company filing, stock exchange notice or shareholding regulatory announcement.

7.7 Suspended companies

- 7.7.1 Suspension of dealing rules can be found within the [Corporate Actions and Events Guide](#).

- 7.7.2 Where the company is removed from the FTSE China 50 Index it will be replaced with the highest ranking company, by full market capitalisation, on the Reserve List eligible to be included in the index as at the close of the index calculation on the day preceding the inclusion of the replacement company. This change will be effected after the close of the index calculation and prior to the start of the index calculation on the following day.

Section 8

Industry Classification Benchmark (ICB)

8. Industry Classification Benchmark (ICB)

8.1 Classification structure

- 8.1.1 The FTSE Global Equity Index Series constituents are classified into Industries, Supersectors, Sectors and Subsectors, as defined by the Industry Classification Benchmark (ICB).
- 8.1.2 Details of the Industry Classification Benchmark are available from FTSE Russell and published on the FTSE Russell website (www.lseg.com/en/ftse-russell/) and can be accessed using the following link:
[Industry Classification Benchmark](#)

Section 9

Index algorithm and calculation method

9. Index algorithm and calculation method

9.1 Prices

- 9.1.1 The FTSE China 50 Index uses actual trade prices for securities with local stock exchange quotations.
- 9.1.2 The FTSE China 50 Index receives share prices in real time.

9.2 Foreign exchange rates

- 9.2.1 Refinitiv real time cross exchange rates are used during the intra-day calculation period for the FTSE China 50 Index.
- 9.2.2 The WM/Refinitiv Closing Spot Rates TM are used in the calculation of the end of day index values in Hong Kong dollars and US dollars.

9.3 Dividend treatment

- 9.3.1 The Total Return Index is based on ex dividend adjustments. All dividends are applied as declared in the FTSE Total Return Index.
- 9.3.2 A net of tax Total Return Index is also calculated based on the maximum withholding tax rates applicable to dividends received by institutional investors who are not resident in the same country as the remitting company and who do not benefit from double taxation treaties.

9.4 Algorithm

- 9.4.1 The index algorithm and calculation method are detailed in Appendix C.

Appendix A

Eligible exchange, market segment and exchange rates

Market segment eligible for the FTSE China 50 Index:

Region	Country	Exchange	Segment Name
Asia/Pacific	Hong Kong Special Administrative Region of the People's Republic of China (Hong Kong)	Stock Exchange of Hong Kong	Main Board

Foreign exchange rates

The foreign exchange rates used in the intra-day calculation of the FTSE China 50 Index are Reuter's real-time spot rates.

The FTSE China 50 Index is calculated in Hong Kong dollars and US dollars. Non Hong Kong dollar denominated constituent prices are converted to Hong Kong dollars in order to calculate the Index.

The real-time foreign exchange rates are used throughout the period of calculation (see Appendix B). Therefore foreign exchange movements are taken into account in the Index calculation for each constituent even though the underlying market for that constituent may be closed.

The WM/Refinitiv Closing Spot Rates TM are used to calculate the final Index levels and are termed the "closing FTSE China 50 Index foreign exchange rates".

Appendix B

Index & market opening and closing hours

Index	Open	Close
FTSE China 50 Index (HKD)	09:30	16:15*
Stock Market Trading Times		
Stock Exchange of Hong Kong	09:30	12:00
	13:00	16:00

All times are Local Hong Kong Time

The index will not be calculated on Hong Kong Public Holidays.

* the official closing index value in non-base currency will be calculated after receipt of the WM/Refinitiv Closing Spot Rates TM at 16:00 UK time. The index will disseminate continuously up until 16:00 HK time and then pause dissemination until 17:00 UK time when the official closing index values are disseminated.

Appendix C

Index algorithm and calculation method

The index is calculated using the algorithm described below.

$$\sum_{i=1}^N \frac{(p_i \times e_i \times s_i \times f_i \times c_i)}{d}$$

Where,

- $i=1,2,\dots,N$
- N is the number of securities in the index.
- p_i is the latest trade price of the component security (or the price at the close of the Index on the previous day).
- e_i is the exchange rate required to convert the security's currency into the index's base currency.
- s_i is the number of shares in issue used by FTSE Russell for the security, as defined in these Ground Rules.
- f_i is the Investability Weighting Factor to be applied to a security to allow amendments to its weighting, expressed as a number between 0 and 1, where 1 represents a 100% free float. This factor is published by FTSE Russell for each security in the underlying index.
- c_i is the Capping Factor to be applied to a security to correctly weight that security in the index. This factor maps the investable market capitalisation of each stock to a notional market capitalisation for inclusion in the Index (see Appendix D).
- d is the divisor, a figure that represents the total issued share capital of the index at the base date. The divisor can be adjusted to allow changes in the issued share capital of individual securities to be made without distorting the index.

Appendix D

Capping methodology

Application of capping at the quarterly reviews

Capping target

Capping is applied to the constituents of the FTSE China 50 Index at each review so that:

- All companies that have a weight greater than 4.5% in aggregate are no more than 38% of the index.
- No individual company in the index has a weight greater than 9% of the index.

Capping methodology

The index is capped by the following methodology:

Step 1: Cap at 9%

Any company whose index weight is greater than 9% is capped at 9%. The weights of the remaining index constituent companies are increased as a consequence of reducing the weights of the larger companies. The weights of uncapped constituent companies are then checked and if they exceed 9% they are also capped at 9%. This process is repeated until no company weight exceeds 9%.

If the weights after the 9% capping satisfies the capping target, they then become the final weights of the index. Otherwise, the capping proceeds to the next step and the weights that are capped at 9% are discarded.

Step 2: Cap at 4.5%

The companies in the index are capped at 4.5% based on their uncapped weights. This is used as an intermediate portfolio for the following steps.

Step 3: Adjust weights for the top five companies

Let w_i be the uncapped weight for company i , w'_i be the 4.5% capped weight of company i and G denote the collection of the five largest companies by uncapped index weights:

$$G = \{i: w_i \text{ is one of the top 5 companies}\} \quad (\text{E.1})$$

Let u denote the minimum uncapped index weight in the top group G and w'_k is the adjusted weight of u from step 2.

The top five companies that belong to group G , are then elevated proportionally from the weights capped in Step 2, i.e. w'_i .

With $u < 4.5\%$

$$w_i^* = w'_i + (0.38 - \sum_{j \in G} w'_j) \frac{|w_k' - u| + w_i - w'_i}{\sum_{j \in G} |w_k' - u| + w_j - w'_j}, \quad i, j \in G \quad (\text{E.2.1})$$

With $u \geq 4.5\%$

$$w_i^* = w'_i + (0.38 - \sum_{j \in G} w'_j) \frac{|w_i' - w_i|}{\sum_{j \in G} |w_j' - w_j|}, \quad i, j \in G \quad (\text{E.2.2})$$

If all five companies weights are no greater than 9%, i.e. $w_i^* \leq 0.09, \forall w_i \in G$, then the capping proceeds to Step 5. Otherwise, update the weights as:

With $u < 4.5\%$

$$w_i^* := \begin{cases} 0.09 & , w_i^* \geq 0.09 \\ w_i^* + \left(0.38 - \sum_{w_j^* < 0.09} w_j^* - 0.09N\right) \frac{|w_k^* - u| + w_i - w_i^*}{\sum_{w_j^* < 0.09} |w_k^* - u| + w_j - w_j^*} & , w_i^* < 0.09 \end{cases}, \quad i, j \in G \quad (E.3.1)$$

With $u \geq 4.5\%$

$$w_i^* := \begin{cases} 0.09 & , w_i^* \geq 0.09 \\ w_i^* + \left(0.38 - \sum_{w_j^* < 0.09} w_j^* - 0.09N\right) \frac{|w_i^* - w_i|}{\sum_{w_j^* < 0.09} |w_j^* - w_j|} & , w_i^* < 0.09 \end{cases}, \quad i, j \in G \quad (E.3.2)$$

Where N is the number of companies with weights equal to or greater than 9%. (E.3.1 or E.3.2) is repeated until all five company weights are no greater than 9%.

In extreme market conditions where the top four companies have a combined weight of greater than 33.5% in group G all five companies will be assigned an equal weight in group G (i.e. $w_i^* = 7.6\%$).

Step 4: Redistribute weights for the top five companies where $u < 4.5\%$

After the completion of equation E. 3.1 where $u < 4.5\%$, the company weights $w_i^* < 0.09$ are redistributed such that:

$$w_i^{**} := \begin{cases} 0.09 & , w_i^* = 0.09 \\ \frac{w_i}{\sum_{w_i^* < 0.09} w_i} * \left(0.38 - \sum_{w_i^* = 0.09} w_i^*\right) & , w_i^* < 0.09 \end{cases}, \quad i \in G \quad (E.4)$$

Where $u \geq 4.5\%$, Step 4 is not applied, and we move to Step 5.

Step 5: Adjust the weights of the remaining companies

The final step of capping adjusts the weights of all the remaining companies whose uncapped weights are not one of the five highest companies in group G . Let T denote the collection of these companies:

$$T = \{i: w_i \text{ is NOT one of the top 5 companies}\} \quad (E.5)$$

Then all the companies in T are adjusted as:

$$w_i^* = (1 - 0.38) \left(\frac{w_i}{\sum_{j \in T} w_j} + a \times d_i \right), \quad i \in T \quad (E.6)$$

Where

$$d_i = \frac{w_i}{\sum_{j \in T} w_j} - \frac{w_h}{\sum_{j \in T} w_j}, \quad i, j \in T \quad (E.7)$$

is the normalised weight difference between 4.5% capped and uncapped weights, and

$$a = \frac{1}{d_h} \left(\frac{0.045}{1 - 0.38} - \frac{w_h}{\sum_{j \in T} w_j} \right), \quad i, j \in T \quad (E.8)$$

is an adjustment scalar with h denoting the company with the highest uncapped weight in group T .

The capping concludes with final weights w_i^* for company i in the Index.

In order to weight the companies in the index a Capping Factor c_i is calculated for each company i (see Appendix C).

$$c_i = \frac{w_i^*}{w_i} \quad (E.9)$$

Appendix E

Status of index

The FTSE China 50 Index is calculated in real time.

The index is being calculated using trade prices from the Hong Kong stock exchange for all constituents during the hours of the Official Index Period (see Appendix B).

The Official Closing Index for the FTSE China 50 Index is the last index value calculated at the end of the firm period.

For further details of real time definitions please refer to the following guide:

[Real Time Status Definitions.pdf](#)

The official opening and closing hours of the FTSE China 50 Index are set out in Appendix B. Variations to the official hours of the indices are published by FTSE Russell as appropriate.

The FTSE China 50 Index will not be calculated on Hong Kong Public Holidays.

Appendix F

Further information

A Glossary of Terms used in FTSE Russell's Ground Rule documents can be found using the following link:

[Glossary.pdf](#)

Further information on the FTSE China 50 Index are available from FTSE Russell.

For contact details please visit the FTSE Russell website or contact FTSE client services at info@ftserussell.com.

Website: www.lseg.com/en/ftse-russell/

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