

Ground Rules

Franklin Diversified US Large Cap Index

v1.3

The Franklin Diversified US Large Cap Index is not, and is not intended to be, used by supervised entities in the European Union or the United Kingdom and accordingly, the European Benchmark Regulation* and the UK Benchmark Regulation# do not apply to the index. Consequently, supervised entities within the European Union and the United Kingdom are not permitted to use the index as a benchmark as set out in article 3(1)(7) of the European Benchmark Regulation.

For the avoidance of doubt, neither FTSE International Limited nor any other member of the London Stock Exchange Group plc group of companies, is the benchmark administrator (as defined in article 3(1)(6) of the European Benchmark Regulation) of the index.

*[*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 Benchmarks \(Amendment and Transitional Provision\) \(EU Exit\) Regulations 2019 \(which amends the European benchmark regulation in the United Kingdom\)](#)

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Section 1

Introduction

1.0 Introduction

1.1 This document sets out the Ground Rules for the construction and management of the Franklin Diversified US Large Cap Index. Copies of the Ground Rules are available from www.ftserussell.com.

1.2 The Franklin Diversified US Large Cap Index is designed to reflect the performance of stocks representing a specific set of factor characteristics.

1.3 These Ground Rules should be read in conjunction with the Corporate Actions and Events Guide for Non Market Cap Weighted Indexes and the Russell U.S. Equity Indexes Construction and Methodology which are available at www.ftserussell.com. Unless stated in these Ground Rules, the Franklin Diversified US Large Cap Index will follow the same process as the Russell U.S. Equity Index Series.

1.4 The Franklin Diversified US Large Cap Index does not take account of ESG factors in its index design.

1.5 Price and Total Return Indexes will be calculated on an end of day basis.

Total return indexes include income based on ex dividend adjustments. All dividends are applied as declared in the FTSE Total Return Index.

1.6 FTSE Russell

FTSE Russell is a trading name of FTSE International Limited, Frank Russell Company, FTSE Global Debt Capital Markets Limited (and its subsidiaries FTSE Global Debt Capital Markets Inc. and FTSE Fixed Income Europe Limited), FTSE Fixed Income LLC, The Yield Book Inc and Beyond Ratings.

1.7 Statement of Principles for FTSE Russell Non Equity Indices (the Statement of Principles)

Indexes need to keep abreast of changing markets and the Ground Rules cannot anticipate every eventuality. Where the Ground 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 summarizes 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 FTSE Russell's Index Governance Board.

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

- 1.8 FTSE Russell hereby notifies users of the index series that it is possible that circumstances, including external events beyond the control of FTSE Russell, may necessitate changes to, or the cessation of, the index series and therefore, any financial contracts or other financial instruments that reference the index series should be able to withstand, or otherwise address the possibility of changes to, or cessation of, the index series.
- 1.9 Index users who choose to follow this index series or to buy products that claim to follow this index series should assess the merits of the index series 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 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 series or any constituent data.



Section 2

Management Responsibilities

2.0 Management Responsibilities

2.1 FTSE International Limited (FTSE)

2.1.1 FTSE is the benchmark administrator.¹

2.1.2 FTSE is responsible for the daily calculation, production and operation of the Index Series 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 periodic index reviews of the Index Series 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 indexes.

2.2 Amendments to These Ground Rules

2.2.1 These Ground Rules shall be subject to regular review by FTSE Russell to ensure that they continue to best reflect the aims of the index series. 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.

2.2.2 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 Ground Rules should subsequently be updated to provide greater clarity.

¹ FTSE is not the benchmark administrator of the Index Series as the term administrator is defined in the [IOSCO Principles for Financial Benchmarks](#) and [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).



Section 3

Queries and Complaints

3.0 Queries and Complaints

FTSE Russell's complaints procedure can be accessed using the following link:
[Queries_and_Complaints_Policy.pdf](#)



Section 4

Eligible Securities

4.0 Eligible Securities

- 4.1.1 All the constituents from the underlying Russell 1000 index are eligible for inclusion in the Franklin Diversified US Large Cap Index.
- 4.1.2 At the quarterly review securities that are affiliated with Franklin Resources by either a direct or indirect aggregate shareholding of greater than 20% will be excluded from the underlying index.

Section 5

Factor Construction

5.0 Factor Construction

The data cut-off date for the calculation of all factor data is the close of business on the last business day of the month prior to the review month.

5.1 Factor Normalisation and Missing Data Treatment

5.1.1 The z-score for a factor is computed by combining the relative z-scores of the individual descriptors defined for each factor.

5.1.2 The z-score for a momentum descriptor for each security is calculated as described below:

$$Z_i^j = \frac{D_i^j - \bar{D}_i^j}{\sigma(D_i^j)}$$

Where:

$Z_{i,j}$ is the individual descriptor z-score for stock i for descriptor j

$D_{i,j}$ is the descriptor value of stock i for descriptor j

\bar{D}_i^j is the equal weighted mean of the descriptor values for descriptor j of all the securities included in the underlying Index

$\sigma(D_i^j)$ is the equal weighted standard deviation of the descriptor values for descriptor j of all the securities included in the underlying Index

The Z-scores are winsorized at +/-3 (i.e., the z-scores above 3 are capped at 3 and z-scores below -3 are floored at -3).

5.1.3 All momentum descriptors with missing data are allocated the universe average z-score after the normalisation procedure in Rule 5.1.2.

5.1.4 The z-score of a quality descriptor for each security is calculated as described below:

$$Z_i^j = \frac{D_i^j - \bar{D}_{i,k}^j}{\sigma(D_{i,k}^j)}$$

Where:

$Z_{i,j}$ is the individual descriptor z-score for stock i for descriptor j

$D_{i,j}$	is the descriptor value of stock i for descriptor j
$\bar{D}_{i,k}^j$	is the equal weighted mean of the descriptor values for descriptor j of all the securities in industry k of the Industry Classification Benchmark (ICB) included in the underlying Index
$\sigma(D_{i,k}^j)$	is the equal weighted standard deviation of the descriptor values for descriptor j of all the securities in industry k of the Industry Classification Benchmark (ICB) included in the underlying Index

The Z-scores are winsorized at +/-3 (i.e., the z-scores above 3 are capped at 3 and z-scores below -3 are floored at -3).

5.1.5 All quality descriptors with missing data are allocated the industry average z-score after the normalisation procedure in Rule 5.1.4.

5.1.6 The z-score of a value descriptor for each security is calculated as described below:

$$DD_i^j = D_i^j - \bar{D}_{i,m}^j, \quad Z_i^j = \frac{DD_i^j - \overline{DD}_{i,k}^j}{\sigma(DD_{i,k}^j)}$$

Where:

$Z_{i,j}$	is the individual descriptor z-score for stock i for descriptor j
$D_{i,j}$	is the descriptor value of stock i for descriptor j
$DD_{i,j}$	is the sector demeaned descriptor value of stock i for descriptor j
$\bar{D}_{i,m}^j$	is the equal weighted mean of the descriptor values for descriptor j of all the securities in sector m of the Industry Classification Benchmark (ICB) included in the underlying Index
$\overline{DD}_{i,k}^j$	is the equal weighted mean of the sector demeaned descriptor values for descriptor j of all the securities in industry k of the Industry Classification Benchmark (ICB) included in the underlying Index
$\sigma(DD_{i,k}^j)$	is the equal weighted standard deviation of the sector demeaned descriptor values for descriptor j of all the securities in industry k of the Industry Classification Benchmark (ICB) included in the underlying Index

The Z-scores are winsorized at +/-3 (i.e., the z-scores above 3 are capped at 3 and z-scores below -3 are floored at -3).

5.1.7 All value descriptors with missing data are allocated the industry average z-score after the normalisation procedure in Rule 5.1.6.

5.2 Momentum

5.2.1 The momentum factor contains 2 descriptors: 6-month risk-adjusted price momentum and 12-month risk-adjusted price momentum.

5.2.2 6-month risk-adjusted price momentum is defined as the cumulative local daily price return over the trailing 6 months of the cut-off date divided by the annualized standard deviation of weekly local price returns (Wednesday to Wednesday) over the trailing 3 years of the cut-off date.

5.2.3 12-month risk-adjusted price momentum is the cumulative local daily price return over the trailing 12 months of the cut-off date divided by the annualized standard deviation of weekly local price returns (Wednesday to Wednesday) over the trailing 3 years of the cut-off date.

5.2.4 If a stock has history of less than 3 years, it will be treated as missing data.

The z-score of individual descriptors is created following the procedure detailed in Rule 5.1, and the momentum factor is the average z-scores of 6-month and 12-month risk-adjusted price momentum.

5.3 Quality

5.3.1 The following descriptors are used to build the quality factor:

a. Return on Equity

$$\frac{\text{Latest 12 month Net Income}}{\text{Average Shareholders' Equity}} * 100$$

Net income is the trailing 12 month net income as of the data cut-off date. Net income is defined as earnings from continuing operations before preferred dividends and excluding discontinued operations and extraordinary items sourced from Thomson Reuters Worldscope. Shareholders' equity is the average of the most recent and previous fiscal year's total shareholders' equity as of the data cut-off date.

b. Return on Asset

$$\frac{\text{Latest 12 month net income}}{\text{Average Total Asset}} * 100$$

Net income is the trailing 12 month net income as of the data cut-off date. Net income is defined as earnings from continuing operations before preferred dividends and excluding discontinued operations and extraordinary items sourced from Thomson Reuters Worldscope. Total asset is the average of the most recent and previous fiscal year's total asset as of the data cut-off date.

c. Earnings Variability

Earnings variability is defined as the standard deviation of the most recent five fiscal years annual earnings per share growth.

d. Cash ROA

$$\frac{\text{Latest Fiscal Year Net Operating Cash Flow}}{\text{Latest Fiscal Year Total Assets}} * 100$$

Latest fiscal year net operating cash flow and total assets are sourced from Thomson Reuters Worldscope.

e. Leverage

The leverage descriptor value is the average of three components: Market Leverage, Book Leverage, and Debt to Assets ratio, where

$$\text{Market Leverage} = \frac{\text{Company Investable Market Cap} + \text{Preferred Equity} + \text{Long Term Debt}}{\text{Company Investable Market Cap}}$$

$$\text{Book Leverage} = \frac{\text{Book Value} + \text{Preferred Equity} + \text{Long Term Debt}}{\text{Book Value}}$$

$$\text{Debt to Assets} = \frac{\text{Total Debt}}{\text{Total Assets}}$$

Note:

- a) Company Investable Market Cap is as of the data cut-off date
- b) Preferred Equity, Long Term Debt, Book Value, Total Debt, and Total Assets are the most recent available data prior to the data cut-off date and are source from Thomson Reuters Worldscope.
- c) If company investable market cap, preferred equity, or long term debt is missing, the Market Leverage will be treated as missing data

- d) If book value, preferred equity, or long term debt is missing, the Book Leverage will be treated as missing data
- e) If any of the Market Leverage, Book Leverage, or Debt to Assets data is missing, The Leverage factor will be the average of the available components.

f. Gross Profit over Asset

$$\frac{\text{Latest Fiscal Year Gross Income}}{\text{Latest Fiscal Year Total Assets}} * 100$$

Latest fiscal year gross income and total assets are source from Thomson Reuters Worldscope.

5.3.2 The z-score of individual quality descriptors is created following the procedure detailed in 5.1, and quality factor is:

- A. Average z-scores of the Return on Equity, Earnings Variability, and ROA for securities belonging to the ICB Financials Industry (Industry 30).
- B. Average z-scores of the Return on Equity, Earnings Variability, and ROA for securities belonging to the ICB REITs Sector (Sector 351020).
- C. 1/3 z-score of Gross Profit over Asset + 1/3 z-score of Cash ROA + 1/9 z-score of Return on Equity + 1/9 z-score of Earnings Variability + 1/9 z-score of Leverage for securities belonging to ICB Real Estate Industry (Industry 35) excluding REITs Sector (Sector 351020) and all the other industries.

5.4 Value

5.4.1 The following descriptors are used to build the value factor:

a. Book to Price

$$\frac{\text{Latest Book Value}}{\text{Market Capitalization}} * 100$$

Book value is sourced from Thomson Reuters Worldscope as of the data cut-off date. Market Capitalisation is the full market Capitalisation as of the data cut-off date.

b. 12 Month Forward Earnings Yield

$$\left(12M Fwd \frac{EPS}{Price} \right) * 100$$

12 Month Forward EPS is the time weighted average of the IBES mean FY1 and FY2 EPS estimates, where the weights are determined by the proportion of the current fiscal year remaining as of the data cut-off date. The Forward Earnings Yield is the 12 Month Forward EPS divided by price at the data cut-off date.

c. EBITDA to Enterprise Value

$$\frac{\text{Latest 12 month EBITDA}}{\text{Enterprise Value}} * 100$$

EBITDA is the trailing 12 month earnings before Interest, Taxes, Depreciation and Amortization as of the data cut-off date. Enterprise Value is the sum of the company full market capitalisation and net debt as of the data cut-off date. EBITDA and net debt are sourced from Thomson Reuters Worldscope.

5.4.2 The z-score of individual value descriptors is created following the procedure detailed in 5.1, and value factor is:

- A. Average z-scores of Book to Price Ratio and 12 Month Forward Earnings Yield for securities belonging to the ICB Financials Industry (Industry 30).

- B. Average z-scores of Book to Price Ratio and 12 Month Forward Earnings Yield for securities belonging to the ICB REITs Sector (Sector 351020).
- C. Average z-scores of 12 Month Forward Earnings Yield and EBITDA to Enterprise Value Ratio for securities belonging to ICB Real Estate Industry (Industry 35) excluding REITs Sector (Sector 351020) and all the other industries.

5.5 **Outlier Treatment**

- 5.5.1 Top and bottom 0.5% values of each descriptor excluding leverage will be defined as outliers. For leverage, the outliers will be defined at the component level, where the largest 0.5% values of Debt to Assets will be defined as outliers. For the Book Leverage and Market Leverage components of the leverage descriptor, the largest 0.5% values and all the values less than 1 will be defined as outliers.
- 5.5.2 Median value of the universe excluding null values will be assigned to outliers for all descriptors and the components except Book Leverage and Market Leverage, where median value is calculated based on universe excluding null values and values less than 1.

5.6 **Index Back-Histories**

- 5.6.1 The availability of factor data prior to the May 2020 launch date of the Franklin Diversified US Large Cap Index is simulated through the application of a three month lag on fundamental data. All index reviews prior to this date that utilize realized fundamental data incorporate a lag of three months.

Section 6

Index Construction

6.0 Index Construction

6.1 Determination of Factor Score

6.1.1 Calculating the Composite Factor Z-Score

The Composite Factor Z-Score is computed from the factor z-scores described below.

$$Z_{comp_i} = 0.40 \times Z_{quality_i} + 0.30 \times Z_{value_i} + 0.30 \times Z_{momentum_i}$$

Where:

Z_{comp_i} is the composite factor z-score for stock i

$Z_{quality_i}$ is the quality factor z-score of stock i

Z_{value_i} is the value factor z-score of stock i

$Z_{momentum_i}$ is the momentum factor z-score of stock i

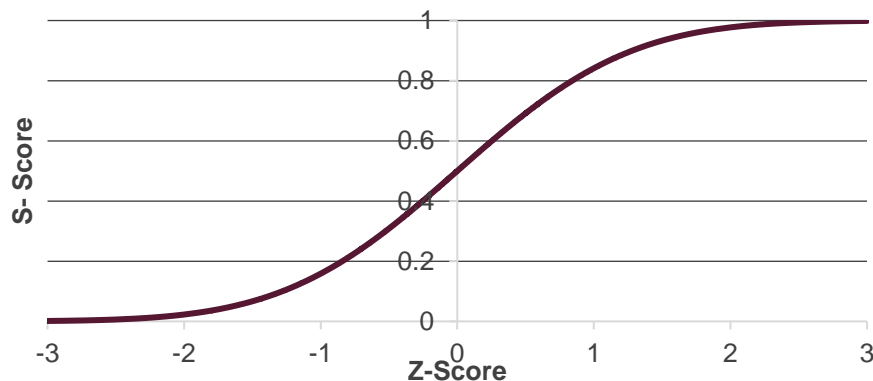
6.1.2 Calculating the Final Factor Score

Composite factor Z-Scores are mapped to a score $S_i \in (0, 1)$, using the cumulative normal distribution with mean zero and standard deviation one.

$$S_i = CN(Z_i) = \int_{-\infty}^{Z_i} \frac{e^{-x^2/2}}{\sqrt{2\pi}} dx \quad (1)$$

Chart 1 illustrates the relationship between Z-Scores and mapped Z-Scores.

Chart 1: Mapping Factor Z-Score to S-Score



6.2 Security Selection and Weighting Scheme

6.2.1 The top 25% of constituents in the underlying universe with the highest Composite Factor Z-Score are selected for inclusion to the Franklin Diversified US Large Cap Index (subject to Rule 6.3).

6.2.2 The securities included are assigned weights in the proportion of Market Cap Weight x Final Factor Score:

$$\widehat{W}_i = \frac{S_i * W_i}{\sum_j S_j * W_j} \quad (2)$$

where W_i are the underlying eligible universe market capitalisation index weights.

6.3 Buffer Rules

To reduce turnover and enhance Index stability, buffer rules are applied as follows:

6.3.1 Security Selection Buffer

A security selection buffer of 50% is applied at each Index Review.

Securities in the underlying universe are ranked by their Composite Factor Z-Score in descending order. The securities ranked within top 12.5% (rounded to the nearest integer) will be included in the Index. Existing constituents not included in the previous step that rank at or within 37.5% (rounded to the nearest integer) are then successively added until the number of securities reaches the 25% target representation. If the number of securities is below the 25% target representation after this step, the remaining securities in the underlying Index with the highest Composite Factor Z-Score are added until the number of securities in the Index reaches the target representation.

6.3.2 Turnover Buffer

A turnover buffer of 50% is applied at each Index Review. If the ongoing rebalancing results in changing the weight of a security from x% to y% in the Index, where x% is the security index weight from data cut-off date and y% is the indicative security index weight from 6.2, then the effective change in weight will be:

$$\text{Effective pro forma constituent weight} = x + (y - x) / 2 \quad (3)$$

The turnover buffer is applied to the uncapped weights of existing and pro forma constituents and is not applied to deletions. Any resulting excess weight will be redistributed amongst the index constituents.

6.3.3 Maximum Stock Weight

A maximum issuer level weight cap of 1% is applied to the Index. Any resulting excess weight will be redistributed amongst the remaining constituents and may cause breaches to the constraints in Rules 6.3.2.

Section 7

Periodic Review of Constituents

7.0 Periodic Review of Constituents

7.1 Review Dates

- 7.1.1 The Franklin Diversified US Large Cap Index will be reviewed quarterly in March, June, September and December, based on data at the close of business on the last trading day of the month prior to review, using constituents as of the Monday following the third Friday of the review month for the March, September and December reviews, and using constituents as of the corresponding benchmark Index review implementation date for the June review.
- 7.1.2 Changes arising from the March, September and December reviews are announced after the close on the Wednesday following the first Friday of review month, seven trading days prior to the implementation of the Franklin Diversified US Large Cap Index review. The review will be implemented after the close of business on the third Friday of the review month.
- 7.1.3 Changes arising from the June review are announced seven trading days prior to the implementation of the Franklin Diversified US Large Cap Index review. The review will be implemented on the same date as the benchmark Index annual reconstitution. For details of the implementation dates of the benchmark Index, please refer to the Russell U.S. Equity Indexes Construction and Methodology available at [Russell-US](#).



Section 8

Changes to Constituent Companies

8.0 Changes to Constituent Companies

8.1 Intra-review Additions

- 8.1.1 Additions to the Russell 1000 Index (e.g. IPO's) will be considered for inclusion in the Franklin Diversified US Large Cap Index at the next quarter review. Companies added to the Russell 1000 Index as a consequence of a corporate action (e.g. a spin-off) will be added to the Franklin Diversified US Large Cap Index at the time of the event, in accordance with the Corporate Actions and Events Guide for Non Market Cap Weighted Indexes.

8.2 Intra-review Deletions

- 8.2.1 A stock that is removed from the Russell 1000 Index will be removed from the Franklin Diversified US Large Cap Index. A minimum of two days notice will be provided and its weight will be distributed pro-rata amongst the remaining constituents in the relevant index.

Section 9

Corporate Actions and Events

9.0 Corporate Actions and Events

9.1 If a constituent in the underlying index has a stock split, stock consolidation, rights issue, bonus issue, a change in the number of shares in issue or a change in free float (with the exception of tender offers), the constituent's weighting in the corresponding Index will remain unchanged pre and post such an event.

9.2 Full details of changes to constituent companies due to corporate actions and events can be accessed in the Corporate Actions and Events Guide for Non Market Cap Weighted Indexes using the following link:

[Corporate Actions and Events Guide for Non Market Cap Weighted Indices.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. The index will be adjusted in line with 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.

9.3 Suspension of Dealing

Suspension of Dealing rules can be found within the Corporate Actions and Events Guide for Non Market Cap Weighted Indexes.

9.4 Takeovers, Mergers and Demergers

The treatment of takeovers, mergers and demergers can be found within the Corporate Actions and Events Guide for Non Market Cap Weighted Indexes..

Section 10

Indexes Algorithm and Calculation Method

10.0 Indexes Algorithm and Calculation Method

10.1 Prices

- 10.1.1 The Index uses actual closing mid-market or last trade prices, where available, for securities with local market quotations. Further details can be accessed using the following link:
[Closing Prices Used For Index Calculation.pdf](#)

10.2 Calculation Frequency

- 10.2.1 The Index will be calculated on an end of day basis and displayed to eight decimal points.

10.3 Index Calculation

- 10.3.1 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 Weighting 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.

- 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 A: Index Opening and Closing Hours

Index	Open	Close
Monday to Friday		
Franklin Diversified US Large Cap Index	9:30	
16:10		

Notes:

1. Closing prices are downloaded from Thomson Reuters at 16:30. Since the New York Stock Exchange, NYSE Arca and NASDAQ do not release official closing prices until several hours later, the price used in the index may not match this official close. If the downloaded closing price is subsequently overwritten by the official closing price, the downloaded closing price is retained in the index calculation.
2. The indexes will be calculated during normal trading hours of the New York Stock Exchange, NYSE Arca and NASDAQ will be closed on US holidays.
3. Timings are based on Eastern Standard Time (EST).



Appendix B: Status of Index

The Index may be calculated in real time.

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 Indexes are set out in Appendix A. Variations to the official hours of the Indexes will be published by FTSE Russell.

The index series will not be calculated on public holidays.



Appendix C: Further Information

A Glossary of Terms used in FTSE Russell's Ground Rule documents can be found using the following link:
[Glossary.pdf](#)

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

Website: www.ftserussell.com

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