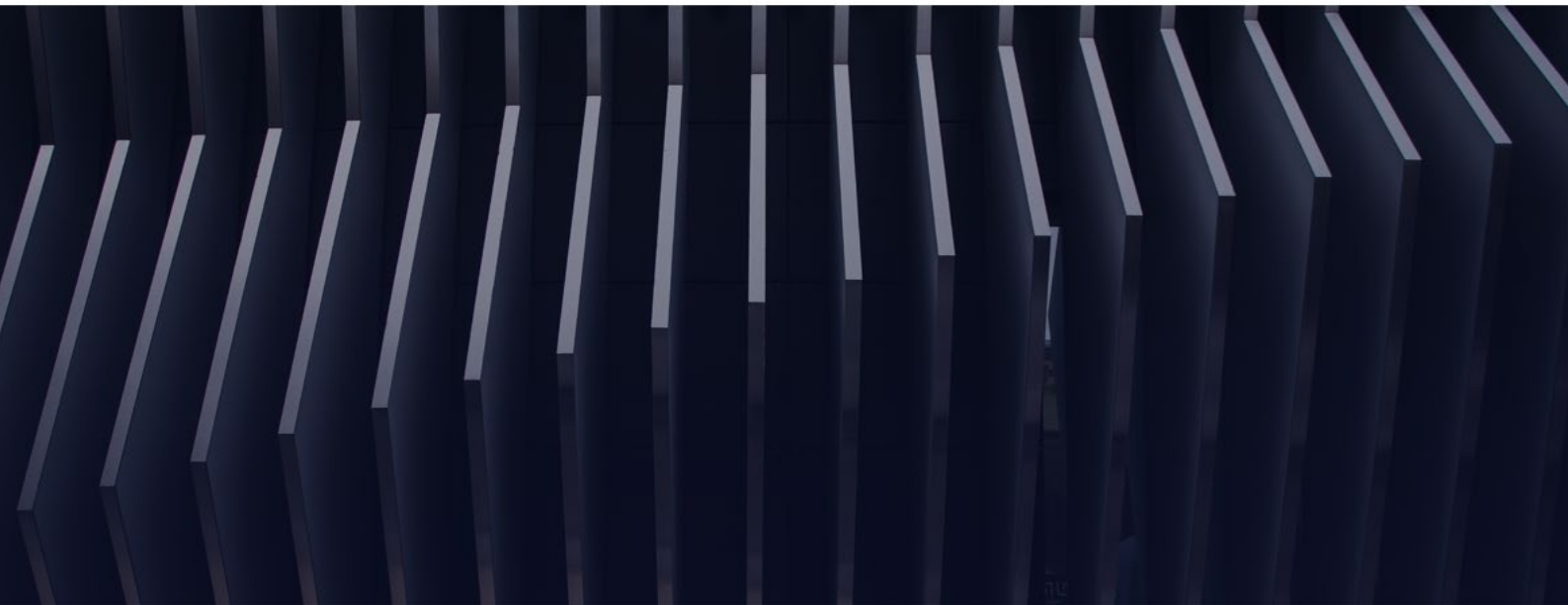


Wilshire Indexes

Wilshire 5000 Index Series Methodology

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1 Introduction

1.1 The Wilshire 5000 Series

This document describes the procedures used to construct and maintain the Wilshire 5000 Index Series. It is reviewed at least annually but more frequent updates may be made in the light of market events or as a result of feedback obtained via a consultation. It should be read in conjunction with the [Wilshire Indexes Equity Index Calculation and Corporate Action Guide](#) which describes the calculation algorithm, the index treatment of corporate actions and events, and the procedures to be followed for suspended or delisted securities, and at times of market disruption. The [Wilshire Indexes Equity Index Calculation and Corporate Action Guide](#) applies to all standard Wilshire equity indexes and to other indexes calculated or administered by Wilshire Indexes where this is explicitly stated in the methodology documentation for those indexes.

The Wilshire 5000 is designed to represent the total U.S. equity market. The Wilshire 5000 includes all publicly traded U.S. equity securities that have readily available prices. The below diagram represents the size segment breakdowns of the Wilshire 5000:

Size Segments			
Wilshire 5000	Wilshire US Large-Cap Index	Wilshire 2500 Index	
			Wilshire US Mid-Cap Index
	Wilshire US Small-Cap Index		
	Wilshire US Micro-Cap Index		

Additionally, the Wilshire 4500 Index will consist of the Wilshire 5000 Index excluding constituents of the Standard & Poor’s 500 Index.

1.2 Relationship to the FT Wilshire 5000 Index Series

The FT Wilshire 5000 index series is an enhanced version of the Wilshire 5000 series. Unlike the Wilshire 5000 series, where ranking is determined by numerical position, the FT Wilshire 5000 series assigns size segments based upon percentile banding of the total market capitalization of the FT Wilshire 5000. This may lead to differences in constituencies and size allocations between the Wilshire 5000 and the FT Wilshire 5000.

However, it is expected that the overall FT Wilshire 5000 universe should match the Wilshire 5000. So a constituent of the FT Wilshire 5000 will be a constituent of the Wilshire 5000 and vice versa.

2 Index Eligibility Criteria

The constituents of the Wilshire 5000 are drawn from all publicly traded US equity securities that have readily available prices. To be included in the Wilshire 5000 Index Series, an issue must satisfy the following eligibility criteria:

2.1 Eligible Companies

The following company types are deemed ineligible for the Wilshire 5000 index series: Limited Liability Companies (LLCs), Limited Partnerships (LPs and LLPs), Business Development Companies (BDCs), Special Purpose Acquisition Companies (SPACs) (until such time as they consummate an acquisition), closed end investment companies, royalty trusts.

A company must be assigned a US nationality (as per Section 3) for its securities to be eligible for inclusion in the Wilshire 5000 Index Series.

2.2 Eligible Securities

Common stocks and REITs are eligible for inclusion in the Wilshire 5000 index series. The following security types are not eligible for inclusion in the Index Universe:

- Mutual funds, ETFs, preference shares and equity derivatives
- Bulletin board issues
- Pink sheet stocks.

A security must be priced as of the data cut-off date (Section 5.4) and have a known number of shares outstanding to be eligible for index inclusion.

2.3 Eligible Exchanges

In addition to being assigned a US nationality through Section 3, securities must trade on one or more of the following exchanges/market segments to be eligible for inclusion in the Wilshire 5000 Index Series.

Exchange	Sector
NASDAQ	Global Select
NASDAQ	Global Market
NASDAQ	Capital Market
New York Stock Exchange	NYSE
NYSE American	NYSE American
NYSE Arca	NYSE Arca
CBOE BZX US Equities Exchange	Main Board

2.4 Investability Screens

To create an investable index, investability screens are applied to each eligible security in the Index Universe to produce the Provisional Index.

2.4.1 Minimum Free Float Market Capitalization Requirement

To be included in the Wilshire 5000 Index Series, the free float market capitalization of a newly eligible security in the large- and small-cap size segments must be at least 30% of the Capitalization Inclusion Level for that size segment. To be included in the micro-cap size segment, a newly eligible security must have a free float market capitalization of at least \$25m. For example, for a newly eligible security to be assigned to the large-cap size segment, it needs to have a free float market capitalization of at least 30% of the Capitalization Inclusion Level for the large-cap size segment; if the security fails to meet this threshold, it will be excluded from the Wilshire 5000 Index Series.

For an existing constituent to remain in the same large- or small-cap size segment index, its free float market capitalization must be at least 20% of the Capitalization Inclusion Level for the corresponding size segment. For an existing constituent to remain in the micro-cap size segment, it must have a free float capitalization of at least \$20m. If an existing constituent has a size segment change, it is treated as a newly eligible security for its new size segment.

2.4.2 Minimum Liquidity Requirement

To be included in the Wilshire 5000 Index Series, a newly eligible security in the large- and small-cap size segments must have:

- a minimum of three months' trading history as of the cut-off date of the semi-annual reconstitution
- traded for at least 10 days in each of those three months, and
- an annualized monthly median traded value ratio of at least 15%.

A newly eligible constituent in the micro-cap size segment must have:

- a minimum of three months' trading history as of the cut-off date of the semi-annual reconstitution
- traded for at least 10 days in each of those three months, and
- an annualized monthly median traded value ratio of at least 7.5%.

To continue to be included in the Wilshire 5000 Index Series, an existing constituent in the large- and small-cap size segments must have:

- traded for at least 10 days in each of the three months preceding the cut-off date of the semi-annual reconstitution, and
- an annualized monthly median traded value ratio of at least 10%.

An existing constituent in the micro-cap size segment must have:

- traded for at least 10 days in each of the three months preceding the cut-off date of the semi-annual reconstitution, and
- an annualized monthly median traded value ratio of at least 5%.

The monthly median traded value ratio is defined as the median daily traded value in a month, multiplied by the number of days the security traded during that month, and divided by its month end free float market capitalization. The monthly median traded value ratio is calculated for each of the three calendar months before the cut-off date. Finally, the average of the available monthly median traded value ratios is taken and multiplied by 12 to arrive at the annualized monthly median traded value ratio.

To calculate the daily traded value, the trading volume from eligible stock exchanges (as per Section 2.4) is aggregated for each security.

2.4.2.1 Berkshire Hathaway Class A Exception

An exception to the minimum liquidity requirement is made for Berkshire Hathaway Class A. Because of its relatively high security price, this Class may on occasion fail the liquidity test for existing constituents. However, because of its large index weight and recognizing that this particular security can be closely replicated by the Class B line, it is not subjected to the liquidity test applied at the semi-annual reconstitution.

3 US Nationality

To be eligible for inclusion in the Wilshire 5000 Index Series, a company must be assigned a US nationality according to the rules set out below.

3.1 General Rules

Companies are assigned to a single country. In general, the nationality assignment is based on the company's country of incorporation, the location of their headquarters and the location of their primary listing. These rules are summarized in the table below.

Incorporation	Headquarters	Primary Listing	Nationality
A	A	A	A
A	A	B	A
A	B	A	A
A	B	B	B
A	B	C	B or C*

* The choice between B and C will be made following consideration of other factors including the nationality and location of the company's directors and senior management, the location of its production assets and revenue, and the company's history and heritage.

3.2 Benefit Incorporation Countries

If the company is incorporated in a "Benefit Incorporation Country" (BIC), the following rules apply. See Appendix A for a list of countries considered to constitute benefit incorporations.

Incorporation	Headquarters	Primary Listing	Nationality
Benefit Incorporation	A	A	A
Benefit Incorporation	A	B	A or B*
Benefit Incorporation	Benefit	B	B

* The choice between A and B will be made following consideration of other factors including the nationality and location of the company's directors and senior management, the location of its production assets and revenue, and the company's history and heritage.

3.3 US Multi-nationals

Several large, US multi-national companies have chosen Ireland as their country of incorporation, and sometimes also for their global headquarters, primarily for the tax advantages conferred. The following rules apply in these circumstances.

Incorporation	Headquarters	Primary Listing	Nationality
Ireland	US	US	US
Ireland	A	US	US
Ireland	Ireland	US	US or Ireland*

*The choice between the US and Ireland will be made following consideration of other factors including the nationality and location of the company's directors and senior management, the location of its production assets and revenue, and the company's history and heritage.

3.4 Chinese Companies

Chinese companies may choose to incorporate outside of mainland China, primarily in Hong Kong or a Benefit Incorporation Country. This includes state-controlled Chinese entities (Red-Chips) and privately controlled Chinese entities (P-Chips) that list in Hong Kong, N-shares that list in New York, and S-Chips that list in Singapore. The following rules apply to these companies.

Incorporation	Headquarters	Primary Listing	Nationality
Hong Kong	China	Hong Kong	China or Hong Kong*
Benefit Incorporation	China	Hong Kong	China
Benefit Incorporation	Hong Kong	Hong Kong	China or Hong Kong*
A	China	US	China
A	China	Singapore	China
Singapore	China	Singapore	China or Singapore*

* The choice between China and Hong Kong or between China and Singapore will be based on further analysis, including analysis of the location of the company's production assets and the source of its revenues.

4 Segment Banding

The Wilshire 5000 indexes are ranked semi-annually in March and September. The below breakpoints detail the required positions to be eligible for the respective size segments:

Wilshire US Large-Cap Index

- The Wilshire US Large-Cap index consists of the 750 largest stocks in the Wilshire 5000 by market cap in March and September;
- Current Large-Cap stocks between 751 and 900 (inclusive) will remain a member of the Wilshire Large Cap index.
- Small-Cap stocks ranking up to position 601 (inclusive) will remain in the Small-Cap index.

Wilshire US Mid-Cap Index

- The Wilshire US Mid-Cap index will consist of approximately the 250 smallest Large Cap stocks and the 250 largest Small-Cap stocks (position 501-1000).
- A current Mid-Cap constituent will remain in Mid-Cap if it ranks between 401 to 1,100 by market cap;
- A current Large-Cap constituent will join the Mid-Cap at position 601 or below;
- A current Small-Cap constituent will join the Mid-Cap at position 900 or above;

Wilshire US Small-Cap Index

- Be a stock between position 751 to 2,500 in the Wilshire 5000 by market cap in March and September;
- A current Small-Cap constituent will remain in Small-Cap if it ranks between 601 to 3,000 by market cap;
- A current Large-Cap constituent join the small cap if it ranks at position 901 or below;
- A current Micro-Cap constituent will join the Small-Cap at position 2,000 or above;

Wilshire US Micro-Cap Index

- Be a stock below position 2,500 in the Wilshire 5000 by market cap in March and September;
- A current Micro-Cap constituent will remain in the Micro-Cap if it ranks at position 2,001 or below
- A current Small-Cap constituent will remain in Small-Cap if it ranks at position 3,000 or above;

5 Adjustments & Maintenance

Changes to the indexes' composition and updates of component shares and float factors are based on the following rules:

5.1 Composition Changes

The Wilshire 5000 index is reconstituted semi-annually in March and September. Additions and deletions are made after the close of trading on the third Friday of the month and are pre-announced by the second day prior to the implementation date.

5.2 Index Rebalance

In June and December, constituent shares outstanding and float factors will be updated if the cumulative impact of corporate events since the previous semi-annual reconstitution changes a constituent's index shares (shares outstanding x float factor) by more than 10%.

5.3 Inclusion of Newly Eligible Companies

In June and December, securities of new companies, such as IPOs, direct listings and SPAC conversions, that failed to qualify as fast entrants (see Section 6.1 below), but that meet the index eligibility requirements in Section 2 are added to the Wilshire 5000 Index Series. They are assigned to their corresponding size segment indexes based on the Capitalization Inclusion Levels determined at the previous semi-annual reconstitution (Section 5.1).

5.4 Data Cut-Off Date

The data cut-off date is the last weekday (Monday to Friday only) of the month prior to the reconstitution month. Reconstitution changes are implemented after the close of business on the third Friday of the reconstitution month. Any share or float changes arising as a result of a corporate action between the cut-off date and the reconstitution effective date are implemented. However, share changes that are effective after the cut-off date do not affect the calculation of the Company Full Market Capitalization.

6 Weighting

Variants of the index are calculated using both float-adjusted and full market capitalization weighting.

7 Ongoing Maintenance

7.1 Fast Entry Additions

Large IPOs that meet the eligibility criteria set out in Section 2 are eligible for early inclusion in the Wilshire 5000 Index Series if the company's full market capitalization exceeds twice the Capitalization Inclusion Level for the FT Wilshire 5000 large-cap size segment as defined in Section 2.2 of the [FT Wilshire 5000 Index Series Methodology](#). In addition, the free float market capitalization of the IPO must exceed 60% of the corresponding Capitalization Inclusion Level for the large-cap size segment. The fast entry addition will be implemented after the close of business on the tenth day of trading if it satisfies the above criteria based on the closing price on the first day of trading. IPOs that do not qualify as fast entrants to the index will be considered for inclusion at the next rebalance (Section 5.2) or semi-annual reconstitution (Section 5.1).

7.2 Intra-Rebalance Deletions

Securities may be removed from the FT Wilshire 5000 Index Series at times other than a rebalance or reconstitution in the following circumstances.

7.2.1 Acquisitions and Bankruptcies

The rules for the removal of securities that are due to cease trading as a result of acquisition or impending bankruptcy, are set out in the [Wilshire Indexes Equity Index Calculation and Corporate Action Guide](#).

7.2.2 Securities that Cease to Trade on an Eligible Exchange

The rules for the removal of securities that cease to trade on an eligible exchange, for example because they move to OTC or pink sheet trading, are set out in the [Wilshire Indexes Equity Index Calculation and Corporate Action Guide](#).

7.2.3 Ineligible Spin-Off Securities

The rules for the treatment of ineligible spin-off securities are set out in the [Wilshire Indexes Equity Index Calculation and Corporate Action Guide](#).

7.3 Corporate Actions and Events

The Wilshire 5000 Index Series is maintained to take account of corporate actions and events including takeovers, mergers, spin-offs, and suspensions from dealing. The treatment of corporate action and events is set out in the [Wilshire Indexes Equity Index Calculation and Corporate Action Guide](#).

8 Wilshire Indexes Index Policies

This index methodology document should be read in conjunction with the following index policies:

8.1 Equity Index Calculation and Corporate Action Guide

This [document](#) sets out the method of index calculation including the treatment of corporate actions. The guide also summarizes the procedures to be followed in those circumstances where prices for individual securities or securities traded on a particular market are unavailable.

8.2 Benchmark Approval, Change and Cessation Policy

This [document](#) describes the procedures that Wilshire Indexes follows for approving construction of a new index; for changing the methodology of an existing index, including the circumstances when a proposal will be put to consultation; and for discontinuing an existing index.

8.3 Policy for the Exercise of Expert Judgement

This [document](#) describes the circumstances in which Wilshire Indexes will exercise expert judgement and the principles that will be followed in such circumstances.

8.4 Error Correction Policy for Equity Indexes

This [document](#) summarizes the approach Wilshire will adopt when correcting errors of index calculation and of index composition including the circumstances when an index will be corrected on a go-forward basis and when an index will be restated historically.

8.5 Queries and Complaints Policy

This [document](#) sets out the mechanisms by which index users and other stakeholders can submit queries, for example in connection with a data item used in the calculation of an index, or make a complaint about an index management decision, for example in connection with the treatment of a corporate event or a classification decision. The document includes the steps that Wilshire Indexes will take in considering the query or complaint.

Approval

This Methodology was approved by the Index Management Committee.

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