

Ground Rules



FTSE/JSE Africa Index Series

v5.5

Contents

1.0	Introduction.....	3
2.0	Management Responsibilities.....	6
3.0	FTSE Russell Index Policies	8
4.0	Index Construction	10
5.0	Periodic Review of Constituent Companies.....	22
6.0	Changes to Constituent Companies	25
7.0	Industry Classification Benchmark	31
8.0	Index Calculation	32
9.0	Status of Indexes	33
10.0	Appendix A – Further Information.....	34
11.0	Appendix B – Methodology for Capping Indexes	35
12.0	Appendix C – Methodology for Shareholder Weighted Indexes	37
13.0	Appendix D – Methodology for Style Indexes	38
14.0	Appendix E – FTSE/JSE Dividend+ Index.....	43
15.0	Appendix F – FTSE/JSE Preference Share Index.....	46
16.0	Appendix G – FTSE/JSE Net of Tax Indexes	47

Section 1

Introduction

1.0 Introduction

1.1 This document sets out the Ground Rules for the construction and management of the FTSE/JSE Africa Index Series. Copies of the Ground Rules are available from FTSE Russell, the JSE Limited (JSE) (see Appendix A) and on the websites www.ftserussell.com and www.ftsejse.co.za.

1.2 The FTSE/JSE Africa Index Series is designed to represent the performance of South African companies, providing investors with a comprehensive and complementary set of indexes, which measure the performance of the major capital and industry segments of the African market.

1.3 FTSE Russell

FTSE Russell is a trading name of FTSE International Limited, Frank Russell Company, and FTSE TMX Global Debt Capital Markets Limited and its subsidiaries (including MTSNext Limited). FTSE International Limited is the administrator of all FTSE Russell indexes.

1.4 IOSCO

1.4.1 FTSE Russell considers that the FTSE/JSE Africa Index Series meets the IOSCO Principles for Financial Benchmarks as published in July 2013.

1.5 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 or investment funds which use the index series to measure their performance should be able to withstand, or otherwise address the possibility of changes to, or cessation of, the index series.

1.6 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 JSE for any losses, damages, claims and expenses suffered by any person as a result of:

- any reliance on these Ground Rules, and/or
- any errors or 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 errors or inaccuracies in the compilation of the index series or any constituent data.

1.7 There are different categories under which the FTSE/JSE Africa Index Series belong. The indexes may be grouped into the following categories:

1.7.1 **Headline Indexes**

There are seven indexes making up the headline series (the FTSE/JSE All Share Index, the FTSE/JSE Large & Mid Cap, the FTSE/JSE Large Cap, the FTSE/JSE Mid Cap Index, the FTSE/JSE Small Cap, the FTSE/JSE Fledgling Index and the FTSE/JSE Top 40 Index).

1.7.2 **Tradable Indexes**

A tradable index is any index on which a JSE-listed derivative product is based. What is important to note is that an index can change “tradable” status, as and when the demand for derivative contracts changes. Thus, an index will no longer be tradable if the relevant derivative product is terminated.

1.7.3 **All Share Industry Indexes**

The Industry Classification Benchmark consists of 4 levels of classification and at the highest level there are ten industries. The classification of the FTSE/JSE All Share Index constituents at industry level will be used to calculate an index for each of the 10 Industries.

1.7.4 **All Share Super sector Indexes**

There are no indexes at the Super sector level.

1.7.5 **All Share Sector Indexes**

The third level of the Industry Classification Benchmark is Sectors. The classification of the FTSE/JSE All Share Index at Sector level will be used to calculate the Sector Indexes.

1.7.6 **All Share Subsector Indexes**

The final level of the classification is Subsector. Using the classification of the FTSE/JSE All Share Index at Subsector level, the 5 Subsectors that make up the Mining Sector will be calculated.

1.7.7 **Secondary Markets Indexes**

The South African Market has three separate secondary markets:

- Development Capital,
- Venture Capital, and
- the Alternative Exchange

Indexes will be calculated for the Alternative Exchange only.

1.7.8 **Specialist Indexes**

A number of Specialist Indexes are included. The detail index qualification criteria are listed in Rule 4.5.18.

1.7.9 **Capped Indexes**

Capped Indexes can be based on any index category of the FTSE/JSE African Index Series. It assumes the same rules for construction (shares in issue, quarterly review and corporate actions) except that the weighting is applied on a quarterly basis as per Appendix B.

1.7.10 **Shareholder Weighted Indexes**

The constituents of the FTSE/JSE Shareholder Weighted (SWIX) All Share Index are based on the FTSE/JSE All Share Index and selected by gross market capitalisation. The constituents of the FTSE/JSE SWIX Top 40 Index are independently ranked and selected by their SWIX net market capitalisation. All SWIX constituents are down-weighted in the SWIX indexes by applying an alternate free float, called the SWIX free float. The SWIX free float represents the proportion of a

constituent's share capital that is held in dematerialised form and registered on the South African share register. The SWIX free float will not exceed the FTSE/JSE company free float.

Refer to Appendix C for a full description of how the SWIX free float is calculated.

1.7.11 Style Indexes

The primary purpose of these indexes is to provide investors with a measure of the performance of value and growth companies which are constituents of the FTSE/JSE All Share Index. There are two indexes representing Value and Growth portfolios. The FTSE/JSE Value index is designed to reflect portfolios focusing on the price and value characteristics of securities, weighted towards those companies with identifiable value characteristics. The FTSE/JSE Growth index is designed to reflect portfolios focusing on earnings and revenue growth, weighted towards those companies with identifiable growth characteristics. Detail is provided in Appendix D.

1.7.12 FTSE/JSE Preference Share Index

The FTSE/JSE Preference Share Index is a market capitalisation weighted index consisting of non-convertible, non-redeemable, floating rate preference shares schedule. (Please refer to Appendix F).

1.7.13 FTSE/JSE Equally Weighted Indexes

FTSE/JSE Equally Weighted Indexes are market capitalisation weighted indexes consisting of stocks that are weighted equally at each quarterly review.

1.8 The FTSE/JSE Africa Index Series will be published on a frequency determined by FTSE Russell and JSE in consultation with the FTSE/JSE Index Series Advisory Committee.

1.9 Total Return Indexes are published at the end of each working day. The Total Return Indexes are based on ex dividend adjustments.

Section 2

Management Responsibilities

2.0 Management Responsibilities

2.1 FTSE Russell /JSE Responsibilities

2.1.1 FTSE is the benchmark administrator of the index series.

2.1.2 FTSE Russell is responsible for the daily calculation and production of the index series and will:

- calculate all the indexes in the FTSE/JSE Africa Index Series and will maintain records of the index weightings of all constituents and reserve companies.
- following consultation with the JSE, FTSE Russell will make changes to the constituents and their weightings in accordance with the Ground Rules;
- FTSE Russell is responsible for monitoring the performance of the FTSE/JSE Africa Index Series throughout the day and will determine whether the status of each index should be 'firm', 'indicative', 'held' or 'closed'. FTSE Russell will inform the JSE of all occasions when an index is not firm in the Official Index Period and will inform the FTSE/JSE Index Series Advisory Committee of the reasons for all such occasions at the next regular meeting.

2.1.3 The JSE is responsible for the operation of the FTSE/JSE Africa Index Series.

- The JSE will monitor and liaise with FTSE Russell on all changes to index and constituent data.
- The JSE will carry out the quarterly review of the FTSE/JSE Africa Index Series and liaise with FTSE Russell on implementing the resulting constituent changes as required by the Ground Rules.

2.2 FTSE/JSE Index Series Advisory Committee

2.2.1 Committee Responsibilities

The purpose of the Committee is to consider and advise on matters relating to and proposed amendments to the Ground Rules governing the management of the FTSE/JSE Africa Index Series and to ensure that best practice is used in the construction and ongoing management of the Indexes.

In particular the Committee will:

- ensure that global standards are applied in the Ground Rules
- advise on how to reconstruct or replace the existing index methodology

- oversee the ongoing management of the indexes, corporate actions and changes to Ground Rules
- advise on the construction and methodology of new indexes.

2.2.2 The Terms of Reference of the FTSE/JSE Index Series Advisory Committee are set out on the FTSE Russell website.

[FTSE JSE Africa Index Series Advisory Committee.pdf](#)

2.2.3 Committee Membership

The JSE appoints the Chairman, Deputy Chairman and members of the FTSE/JSE Index Series Advisory Committee. The Chairman, or in his absence Deputy Chairman, will chair meetings of the Committee and will represent that Committee outside meetings.

No member of the Advisory Committee is on the Advisory Committee to represent that member's employer but rather is there because of that person's specific expertise and to represent the interests of the industry generally.

2.2.4 Committee Secretary

A Secretary to the FTSE/JSE Index Series Advisory Committee is appointed by the JSE to support the work of the Committee.

2.3 **Amendments and Exceptions**

2.3.1 These Ground Rules shall be subject to regular review (at least once a year) to ensure that they continue to meet the current and future requirements of investors and other index users. Any changes will normally be proposed by the FTSE/JSE Advisory Committee or any of those responsible for the operation and administration of the FTSE/JSE Index Series and may be authorised only by the FTSE Russell Product Governance Board.

2.3.2 Where FTSE/JSE or the FTSE/JSE Index Series Advisory Committee 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/JSE 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/JSE will consider whether the Rules should subsequently be updated to provide greater clarity.

An exception to the Ground Rules may be authorised by the FTSE Russell Product Governance Board under the Statement of Principles. Where an exception is granted to the Ground Rules under this rule, FTSE/JSE shall advise the market at the earliest opportunity. Any exception shall not be deemed to create a precedent for future decisions by FTSE/JSE, the FTSE Russell Product Governance Board or the FTSE/JSE Index Series Advisory Committee.

Section 3

FTSE Russell Index Policies

3.0 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 Corporate Actions and Events Guide

- 3.1.1 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](#)

3.2 Statement of Principles for FTSE Russell Equity Indexes (the Statement of Principles)

Indexes 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 Index Policy Advisory Board for discussion before approval by the FTSE Russell Product Governance Board.

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

[Statement of Principles.pdf](#)

3.3 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 Indexes 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:

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

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

[Appeals Against Decisions.pdf](#)

3.4 **Index Policy for Trading Halts and Market Closures**

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

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

3.5 **Index Policy in the Event Clients are Unable to Trade a Market**

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

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

3.6 **Recalculation Policy and Guidelines**

- 3.6.1 The FTSE/JSE Africa Index Series is recalculated whenever errors or distortions occur that are deemed to be significant. Users of the FTSE/JSE Africa Index Series are notified through appropriate media.

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

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

3.7 **FTSE Russell Policy for Benchmark Methodology Changes**

[Details of FTSE Russell's policy for making benchmark methodology changes can be accessed using the following link:](#)

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

Section 4

Index Construction

4.0 Index Construction

4.1 Eligible Securities

- 4.1.1 All classes of ordinary shares in issue, excluding inward listings affecting foreign portfolio investment allowances, are eligible for inclusion in the FTSE/JSE Africa Index Series, subject to conforming to all other rules of eligibility, free float and liquidity.
- 4.1.2 Companies that have a full listing on the main board of the JSE, subject to conforming to all other eligibility criteria, are eligible for inclusion in the FTSE/JSE Africa Index Series. Companies listed on secondary boards (markets) may be included in the category for secondary markets, but will not be included in any other indexes.
- 4.1.3 For the purposes of the FTSE/JSE Africa Index Series, where a security is listed on the JSE and is traded on the JSE trading system, that security will be considered as South African for the purposes of nationality and therefore eligible for the FTSE/JSE Africa Index Series, subject to conforming to all other eligibility criteria.
- 4.1.4 Convertible preference shares and loan stocks are excluded until converted.
- 4.1.5 Companies whose business is that of holding equity and other investments (e.g. Investment Trusts) will be eligible for inclusion. However, those investment funds, which have been assessed by the FTSE Industry Classification Benchmark Committee as being in sectors coded 8990 are excluded. Companies classified as Pyramid companies will also not be eligible.
- 4.1.6 Exchange Traded Funds (ETFs) and funds whose prices are a direct derivation of underlying holdings (e.g. Unit Trusts, Mutual Funds) are not eligible for inclusion.

4.2 Secondary Lines

- 4.2.1 Where there are multiple lines of equity capital in a company, all are included and priced separately, provided that they pass index eligibility screens in their own right. The aggregate of the multiple lines are used for ranking by company market cap.
- All partly-paid classes of equity are priced on a fully-paid basis if the calls are fixed and are payable at known future dates. Those where future calls are uncertain in either respect are priced on a partly-paid basis.
- 4.2.2 For the purposes of the FTSE/JSE Africa Index Series, companies with an approved dual listed structure are treated as secondary lines of a single entity.

4.3 Free Float

The entire quoted equity capital of a constituent company is included in the calculation of its market capitalisation, subject to free float restrictions.

4.3.1 Free float restrictions include:

- Shares directly owned by State, Regional, Municipal and Local governments (excluding shares held by independently managed pension schemes for governments).
- Shares held by directors, senior executives and managers of the company, and by their family and direct relations, and by companies with which they are affiliated.
- Shares held within employee share plans.
- Shares held by public companies or by non-listed subsidiaries of public companies.
- All shares where the holder is subject to a lock-in clause (for the duration of that clause)*.
- Shares held by an investor, investment company or an investment fund for strategic reasons as evidenced by specific statements to that effect in publicly available announcements, has an employee on the board of directors of a company, has a shareholder agreement, has successfully placed a current member to the board of directors or has nominated a current member to the board of directors alongside a shareholder agreement with the company.
- Shares that are subject to on-going contractual agreements (such as swaps) where they would ordinarily be treated as restricted.
- Shares that are not accounted for on the Strate Register, only for instruments classified as foreign for index purposes by the South African Reserve Bank. These shares are restricted for selection and weighting purposes, but are not considered restricted for the 5% minimum free float eligibility requirement (see Rule 4.3.5 and 4.3.6). The Strate Register calculation is determined on a three month average basis, using the three months prior to the Review month, with a one month lag.

* Free Float changes resulting from the expiry of a lock-in will be implemented at the next quarterly review subsequent to there being a minimum of 20 business days between the lock-in expiry date and the Tuesday before the first Friday of the review month. If the previously locked-in shares are sold by way of a corporate event (such as a secondary offering), any change to the free float will be applied in accordance with Rule 6.6.1.

4.3.2 Free float restrictions where holding is 10% or greater:

- Shares that are held by Sovereign Wealth Funds.
- Shares held by founders, promoters, former directors, founding venture capital and private equity firms, private companies, individuals (including employees) and shares held by several holders acting in concert.

The shares will remain restricted until the holding falls below 10%

4.3.3 Free float restrictions where holding is 30% or greater

For clarity, portfolio holdings (such as pension funds, insurance funds or investment companies) are generally not considered as restricted. However where a single portfolio holding is 30% or greater it will be regarded as strategic and therefore restricted. The shares will remain restricted until the holding falls below 30%.

If in addition to the above restricted holdings, the company's shareholders are subject to legal restrictions, including foreign ownership restrictions, that are more restrictive, the legal restriction will be applied.

4.3.4 Nominee Accounts:

Shares disclosed as being held by a nominee account are typically regarded as free float. However if a restricted shareholder (as defined under Rules 4.3.1 to 4.3.3) is identified as holding shares through a nominee account then that portion of shares will be restricted.

4.3.5 Minimum free float – 5% or less

Companies with a free float of 5% or below are excluded from the index.

4.3.6 Minimum free float – 5% to 15%

However, a company that has a free float greater than 5% but less than or equal to 15% will be eligible for the index providing the market capitalisation of its available float is greater than the median company's free float capitalisation within the Index on review cut date, and it qualifies in all other respects.

4.3.7 Free float review

Free float will be calculated using available published information rounded to 12 decimal places. Underlying data for the calculation of free float is collected on an ongoing basis, and the detailed free float percentage as maintained by the JSE is updated accordingly.

June Updates

In June, a constituent's free float will be updated regardless of size. No buffers are applied.

March, September and December Updates

At the March, September and December quarterly updates, a constituent with a free float of greater than 15% will have their free float updated if it moves by more than 3 percentage points above or below the existing free float. For example, Company A on a free float of 30% would trigger a change if its free float moved to above 33% or below 27%.

A constituent with a free float of 15% or below will be subject to a 1 percentage point threshold. For example, Company B on a free float of 8% would trigger a change if its free float moved to above 9% or below 7%.

Quarterly updates to free float will be applied after the close of business on the third Friday of March, June, September and December. The data cut-off for these quarterly changes will be the close of business on the third Wednesday of February, May, August and November.

Updates Arising from Corporate Events

Free float changes resulting from corporate events will not be subject to the buffers as detailed above and will be implemented in line with the event.

4.3.8 Foreign ownership limits

Foreign ownership limits, if any, will be applied after calculating the actual free float restriction, as detailed in Rule 4.3.5. If the foreign ownership limit is more restrictive than the free float restriction, the precise foreign ownership limit is applied. If the foreign ownership limit is less restrictive or equal to the free float restriction, the free float restriction is applied, subject to Rule 4.3.5.

4.3.9 Any company classified as an inward-listed share by National Treasury on 24 October 2011 will have its free float adjusted to exclude non-South African shareholdings. Any such exclusion from the company free float will not be taken into account when testing the minimum free float rules defined in Rule 4.3.5 and Rule 4.3.6. Any share listed after 24 October 2011 that is classified as foreign, for index purposes, by South African Reserve Bank will be treated in the same manner. In order to be considered eligible for index inclusion, all inward-listings require a minimum of 1% plus 1 share of their total issued shares to be accounted for on the South African share register at the month end

prior to the Review Cut Date. In the event that a non-constituent meets this criteria for the first time, that company's free float will be based solely on the share register at the month end prior to the Review Cut Date rather than a three month average basis.

4.4 Liquidity

Securities must be sufficiently liquid to be traded. The following criteria are used to ensure that illiquid securities are excluded:

4.4.1 Reliable Price

The FTSE/JSE Index Series Advisory Committee must be satisfied that an accurate and reliable price exists for the purposes of determining the market value of a company. The FTSE/JSE Index Series Advisory Committee may exclude a security from the FTSE/JSE Africa Index Series if it considers that an 'accurate and reliable' price is not available. The FTSE/JSE Africa Index Series uses the last available prices from the JSE when available.

4.4.2 Size – Full Market Capitalisation

In accordance with Rule 4.1, all eligible listed companies will be included in the FTSE/JSE Africa Index Series. The FTSE/JSE Index Series Advisory Committee will review the companies, which are proposed to be included at its semi-annual meeting. The largest eligible companies ranked by full market capitalisation, i.e. before the application of any investability weightings, comprising 99% of all eligible ordinary securities listed on the JSE Main Board, subject to selections buffers as set out in Rule 4.5.8, will be included in the FTSE/JSE All Share Index. The implementation will take effect on the next trading day following the third Friday in March and September.

4.4.3 Liquidity

Securities in the FTSE/JSE Africa Index Series will be reviewed semi-annually in March and September for liquidity*. Any period of suspension will not be included in the test. The liquidity test will be applied on a pro-rata basis where the testing period is less than 12 months.

* When calculating the liquidity trades per month of any security, a minimum of 5 trading days in each month must exist, otherwise the month will be excluded from the test.

Securities which do not turnover at least 0.5% of their shares in issue, after the application of any free float restrictions, per month in at least ten of the twelve months prior to a semi-annual review in March and September will not be eligible for inclusion in the indexes (except the FTSE/JSE Fledgling Index and selected specialist indexes) for the next six months. The free floated shares in issue for each month (February of the previous year to the January before the review and August of the previous year to the July before the review) will be as determined on the last business day of each month.

An existing constituent failing to trade at least 0.5% of its shares in issue, after the application of any free float restrictions, per month for more than four of the twelve months prior to the semi-annual review will be removed after close of the index calculation on the next trading day following the third Friday in March and September.

In the case of demutualisations qualifying for early entry under Rules 8.4.1 where, upon listing, the entire free float is immediately transferred to private shareholders, the addition to the FTSE/JSE All Share Index will be deferred for 20 working days after official non-conditional trading has commenced providing the securities have a turnover of a minimum of 0.5% of their shares in issue, after the application of any free float restrictions, during this period.

In assessing liquidity, data on trading volume will be obtained from the JSE.

In exceptional market conditions, if trading volumes are very low, the FTSE/JSE Index Series Advisory Committee may reduce the percentage figure stated in this rule in order to avoid a large

number of constituents being removed from the FTSE/JSE All Share Index. This discretion may not be applied to individual securities. If the FTSE/JSE Index Series Advisory Committee intends to exercise this discretion, it must make a public statement to that effect at least two weeks prior to its quarterly review.

There is no liquidity requirement for constituents of the FTSE/JSE Fledgling Index and the FTSE/JSE Alternative Exchange Index.

4.5 **Index Qualification Criteria**

4.5.1 FTSE/JSE Top 40 Index

The FTSE/JSE Top 40 Index will consist of the 40 most investable companies ranked by investable market capitalisation, in the FTSE/JSE All Share Index. The number of constituents in this index is maintained at a constant level.

4.5.2 FTSE/JSE Top 40 Index - USD

The FTSE/JSE Top 40 Index - USD will mirror the FTSE/JSE Top 40 Index, but will be calculated in USD.

4.5.3 FTSE/JSE All Share Index

The FTSE/JSE All Share Index will represent 99% of the full market capital value i.e. before the application of any investability weightings, of all ordinary securities listed on the Main Board of the JSE which qualify under Rule 4.1 as eligible for inclusion in the index.

4.5.4 FTSE/JSE Large & Mid Cap Index

The FTSE/JSE Large & Mid Cap Index will represent 96% of the full market capital value i.e. before the application of any investability weightings, of all ordinary securities listed on the Main Board of the JSE which qualify under Rule 4.1 as eligible for inclusion in the index.

4.5.5 FTSE/JSE Large Cap Index

The FTSE/JSE Large Cap Index will represent 85% of the full market capital value i.e. before the application of any investability weightings, of all ordinary securities listed on the Main Board of the JSE which qualify under Rule 4.1 as eligible for inclusion in the index.

4.5.6 FTSE/JSE Mid Cap Index

The FTSE/JSE Mid Cap Index will represent 85%-96% of the full market capital value i.e. before the application of any investability weightings, of all ordinary securities listed on the Main Board of the JSE which qualify under Rule 4.1 as eligible for inclusion in the index.

4.5.7 FTSE/JSE Small Cap Index

The FTSE/JSE Small Cap Index will represent 96%-99% of the full market capital value i.e. before the application of any investability weightings, of all ordinary securities listed on the Main Board of the JSE which qualify under Rule 4.1 as eligible for inclusion in the index.

4.5.8 FTSE/JSE Fledgling Index

The FTSE/JSE Fledgling Index will represent the bottom 1% (99%-100%) of the full market capital value i.e. before the application of any investability weightings, of all ordinary securities listed on the Main Board of the JSE which qualify under Rule 4.1 as eligible for inclusion in the index.

4.5.9 FTSE/JSE Industrial 25 Index

The FTSE/JSE Industrial 25 Index consists of the 25 largest companies ranked by investable market capitalisation (excludes ICB Industry 0001 Oil & Gas, 1000 Basic Materials and 8000 Financials), as at the date of the review in the FTSE/JSE All Share Index excluding the SA Resources sector, which

is the combination of the Oil & Gas and Basic Materials Industries, and Financial Industry group. The number of constituents in this index is maintained at a constant level. Buffers will be applied at each quarterly review to provide stability. The following upper and lower buffers will be used:

- Non-constituents will be eligible for index inclusion if they are ranked on the 22nd position or above by investable market capitalisation.
- Current constituents will be removed from the index if they are ranked on the 29th position or below by investable market capitalisation.

4.5.10 FTSE/JSE Resources 10 Index

The FTSE/JSE Resources 10 Index consists of the 10 largest companies ranked by investable market capitalisation (ICB Industry 0001 Oil & Gas and 1000 Basic Materials), as at the date of the review in the SA Resources sector, defined as the combination of the Oil & Gas and Basic Materials Industries. The number of constituents in this index is maintained at a constant level. Buffers will be applied at each quarterly review to provide stability. The following upper and lower buffers will be used:

- Non-constituents will be eligible for index inclusion if they are ranked on the 9th position or above by investable market capitalisation.
- Current constituents will be removed from the index if they are ranked on the 12th position or below by investable market capitalisation.

4.5.11 FTSE/JSE Financial 15 Index

The FTSE/JSE Financial 15 Index consists of the 15 largest companies ranked by investable market capitalisation (ICB industry 8000), as at the date of the review in the Financial Industry. The number of constituents in this index is maintained at a constant level. Buffers will be applied at each quarterly review to provide stability. The following upper and lower buffers will be used:

- Non-constituents will be eligible for index inclusion if they are ranked on the 13th position or above by investable market capitalisation.
- Current constituents will be removed from the index if they are ranked on the 18th position or below by investable market capitalisation.

4.5.12 FTSE/JSE Gold Sub-Sector Index

The FTSE/JSE Gold Sector Index consists of the companies in the gold sub-sector (ICB sector 1777) that also belong to the FTSE/JSE All Share Index.

4.5.13 FTSE/JSE Financial and Industrial 30 Index

The FTSE/JSE Financial and Industrial 30 Index consists of the 30 largest companies ranked by investable market capitalisation (excludes ICB Industry 0001 Oil & Gas and 1000 Basic Materials), as at the date of the review in the FTSE/JSE All Share Index excluding the Oil & Gas and Basic Materials Industries. The number of constituents in this index is maintained at a constant level. Buffers will be applied at each quarterly review to provide stability. The following upper and lower buffers will be used:

- Non-constituents will be eligible for index inclusion if they are ranked on the 27th position or above by investable market capitalisation.
- Current constituents will be removed from the index if they are ranked on the 34th position or below by investable market capitalisation.

4.5.14 FTSE/JSE Industry Indexes

A FTSE/JSE Industry Index consists of all constituents in the FTSE/JSE All Share Index that belong to that specific Industry.

4.5.15 FTSE/JSE Sector Indexes

A FTSE/JSE Sector Index consists of all constituents in the FTSE/JSE All Share Index that belong to that specific Sector.

4.5.16 FTSE/JSE Subsector Indexes

A FTSE/JSE Subsector Index consists of companies in the 5 Subsectors that make up the Mining Sector that also belong to the FTSE/JSE All Share.

4.5.17 FTSE/JSE Secondary Market Indexes

A. FTSE/JSE AltX Index (Alternative Exchange Index)

The Alternative Exchange Index consists of all eligible companies with classes of ordinary shares on the Alternative Exchange. These companies are adjusted for free float but not assessed for liquidity. Stocks listed on the Alternative Exchange are only eligible for the FTSE/JSE AltX Index and the FTSE/JSE AltX 15 Index and cannot belong to any other FTSE/JSE Index. New entrants will join the index as part of the Quarterly Review process.

B. FTSE/JSE AltX 15 Index

The FTSE/JSE AltX 15 Index consists of the top 15 companies from the FTSE/JSE AltX Index when ranked by investable market capitalisation. Buffers will be applied at each quarterly review to provide stability. The following upper and lower buffers will be used:

- Non-constituents will be eligible for index inclusion if they are ranked on the 13th position or above by investable market capitalisation.
- Current constituents will be removed from the index if they are ranked on the 18th position or below by investable market capitalisation.

A constant number of constituents will be maintained for the FTSE/JSE AltX 15 Index. Where a greater number of companies qualify to be inserted in an index than those qualifying to be deleted, 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, 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.

Companies will be reviewed for liquidity in March and September according to the liquidity methodology in Rule 4.4.

Eligible new issues that come to market after the March or September liquidity review are required to trade 0.5% of their shares in issue, after the application of investability weightings for each consecutive month prior to the next periodic review. New issues are reviewed for index eligibility at the next periodic review. Intra-review corporate events will be treated accordingly with the Index Series. Where a constituent is removed from the index, its replacement will be found by picking the highest ranking non-constituent when ranked by investable market capitalisation five days prior to the constituent being removed.

4.5.18 Specialist Indexes

A. FTSE/JSE Financials and Industrials* Index (J250)

The FTSE/JSE Financials and Industrials Index consists of all ordinary securities listed on the JSE do not belong to the Oil & Gas (0001) and Basic Materials (1000) Industries, which qualify under Rules 6.1 to 6.4 as eligible for inclusion in the FTSE/JSE All Share index and do not belong to the Oil & Gas and Basic Materials Industries.

* The JSE sectors are made up of SA Resources, SA Financials and SA Industrials. The FTSE/JSE Financials and Industrials Index relates to SA Industrials and SA Financials i.e. any All Share constituent that is not classified as SA Resources.

B. FTSE/JSE SA Listed Property Index (J253 - SAPY)

The top 20 liquid companies, by full market capitalisation, taken from the All Share index and listed in the Real Estate Investment and Services Sector 8630 and Real Estate Investment Trusts Sector 8670, with a primary listing on the JSE. The following upper and lower buffers will be used:

- Non-constituents will be eligible for index inclusion if they are ranked on the 17th position or above by full market capitalisation.
- Current constituents will be removed from the index if they are ranked on the 24th position or below by full market capitalisation.

C. FTSE/JSE Capped Property Index (J254 - PCAP)

The top 20 liquid companies, by full market capitalisation, taken from the All Share index and listed in the Real Estate Investment and Services Sector 8630 and Real Estate Investment Trusts Sector 8670 (primary or secondary). Constituent weights will be capped at 15% on a quarterly basis after the application of corporate actions. The capping methodology is detailed in Appendix B (except for that capped percentage that may be different). The following upper and lower buffers will be used:

- Non-constituents will be eligible for index inclusion if they are ranked on the 17th position or above by full market capitalisation.
- Current constituents will be removed from the index if they are ranked on the 24th position or below by full market capitalisation.

D. FTSE/JSE SA Industrials Index (J257)

The FTSE/JSE SA Industrials Index consists of all ordinary securities listed on the JSE which do not belong to the Oil & Gas 0001, Basic Materials 1000 and Financials 8000 Industries. which qualify under Rules 6.1 to 6.4 as eligible for inclusion in the FTSE/JSE All Share Index and do not belong to the Oil & Gas, Basic Materials or Financial Industries.

E. FTSE/JSE SA Resources Index (J258)

The FTSE/JSE SA Resources Index consists of all ordinary securities listed on the JSE which belong to the Oil & Gas 0001 and Basic Materials 1000 Industries which qualify under Rules 6.1 to 6.4 as eligible for inclusion in the FTSE/JSE All Share Index and that belong to the Oil & Gas and Basic Materials Industries.

F. FTSE/JSE Dividend+ Index (J259)

The FTSE/JSE Dividend+ Index is a yield weighted index designed to select and measure the performance of higher yielding instruments. The index selects the top 30 companies by one-

year forecast dividend yield. The number of constituents in this index is maintained at a constant level (see Appendix E).

G. FTSE/JSE RAFI 40 Index (J260) & FTSE/JSE RAFI 40 Index - QSR (J261)

The FTSE/JSE RAFI 40 Index is designed to reflect the top 40 companies from the FTSE/JSE All Share Index by fundamentals. Constituent weights will be capped at 10% on a quarterly basis after application of corporate actions. For further details regarding this FTSE/JSE RAFI 40 Index and its underlying methodology, please refer to the FTSE RAFI Index Series or the FTSE RAFI QSR Index Series Ground Rules available on www.ftserussell.com.

H. FTSE/JSE RAFI All Share Index (J263) & FTSE/JSE RAFI All Share Index - QSR (J265)

The FTSE/JSE RAFI All Share Index is designed to reflect the companies from the FTSE/JSE All Share Index by fundamentals. For further details regarding this FTSE/JSE RAFI All Share Index and its underlying methodology, please refer to the FTSE RAFI Index Series or the FTSE RAFI QSR Index Series Ground Rules available on www.ftserussell.com.

I. FTSE/JSE RAFI All Share Capped (J283)

FTSE/JSE RAFI All Share Capped Index will consist of the constituents of the FTSE/JSE Africa All Share Index, weighted by RAFI fundamental values. The index will be capped at 10% on a quarterly basis. For further details regarding FTSE/JSE RAFI All Share Capped Index and its underlying methodology, please refer to the FTSE RAFI Index Series Ground Rules available on www.ftserussell.com.

J. FTSE/JSE Shariah All Share Index (J143)

The FTSE/JSE Shariah All Share Index is designed to reflect the Shariah compliant companies as screened by Yasaar from the FTSE/JSE All Share Index. For further details on the Shariah screening methodology and Yasaar, please refer to the FTSE Shariah Global Equity Index Series Ground Rules which are available on www.ftserussell.com.

K. FTSE/JSE Shariah Top 40 Index (J140)

The FTSE/JSE Shariah Top 40 Index is designed to reflect the Shariah compliant companies as screened by Yasaar from the FTSE/JSE Top 40 Index. This index will therefore consist of the FTSE/JSE Top 40 companies which are Shariah compliant. For further details on the Shariah screening methodology and Yasaar, please refer to the FTSE Shariah Global Equity Index Series Ground Rules which are available on www.ftserussell.com.

L. FTSE/JSE Capped Shariah Top 40 Index (J141)

The FTSE/JSE Capped Shariah Top 40 Index is designed to reflect the Shariah compliant companies as screened by Yasaar from the FTSE/JSE Top 40 Index. This index will be capped at 10% on a quarterly basis. This index will therefore consist of the FTSE/JSE Top 40 companies which are Shariah compliant.

M. FTSE/JSE Equally Weighted Top 40 Index (J2EQ)

The FTSE/JSE Equally Weighted Top 40 Index will consist of constituents of the FTSE/JSE Top 40 Index. This index will then be equally weighted with each company at 2.5% in each quarterly review. The company weight will be distributed accordingly depending on the size of individual security lines for any company that has more than one security line.

N. FTSE/JSE Equally Weighted Industrial 25 Index (J5EQ)

The FTSE/JSE Equally Weighted Industrial 25 Index will consist of constituents of the FTSE/JSE Industrial 25 Index. This index will then be equally weighted with each company at 4% in each quarterly review. The company weight will be distributed accordingly depending on the size of individual security lines for any company that has more than one security line.

O. FTSE/JSE Equally Weighted Resources 10 Index (J3EQ)

The FTSE/JSE Equally Weighted Resources 10 Index will consist of constituents of the FTSE/JSE Resources 10 Index. This index will then be equally weighted, each company at 10% in each quarterly review. The company weight will be distributed accordingly depending on the size of individual security lines for any company that has more than one security line.

P. FTSE/JSE Equally Weighted Financial 15 Index (J4EQ)

The FTSE/JSE Equally Weighted Financial 15 Index will consist of constituents of the FTSE/JSE Financial 15 Index. This index will then be equally weighted, each company at 6.66...% in each quarterly review. The company weight will be distributed accordingly depending on the size of individual security lines for any company that has more than one security line.

Q. FTSE/JSE Top 40 Minimum Variance Index (J700)

The FTSE/JSE Top 40 Minimum Variance Index will consist of constituents of the FTSE/JSE Top 40 Index that minimise index volatility, based on historical return information, thereby offering potential improvements to the risk/reward trade-off of the index. For further details on the methodology, please refer to the FTSE Global Minimum Variance Index Series Ground Rules which are available on www.ftserussell.com.

R. FTSE/JSE All Share Minimum Variance Index (J703)

The FTSE/JSE All Share Minimum Variance Index will consist of constituents of the FTSE/JSE All Share Index that minimise index volatility, based on historical return information, thereby offering potential improvements to the risk/reward trade-off of the index. For further details on the methodology, please refer to the FTSE Global Minimum Variance Index Series Ground Rules which are available on www.ftserussell.com.

S. FTSE/JSE TOP 40 Risk Target Indexes (J10P, J10E, J10T, J15P, J15E, J15T, J20P, J20E, J20T)

The FTSE/JSE Top 40 Risk Target Return Index Series is part of the FTSE Volatility Target Index Series and is based upon a rules-based framework that tracks the return of an investment strategy which aims to provide an investor with risk targeted exposures to the FTSE/JSE Top 40 Index. The Risk Target Indexes make use of the empirical properties of the risk statistic and aim to provide an equity investor access to three different levels of risk exposure for the FTSE/JSE Top 40 Index: 10%, 15% and 20% respectively.

Ground Rules are available using the following link:

[FTSE Volatility Target Index Series Ground Rules.pdf](#)

T. FTSE/JSE Resources 10 Capped Index (J310)

The FTSE/JSE Resources 10 Capped Index will consist of constituents of the FTSE/JSE Resources 10 Index. This index will be capped at 30% at each quarterly review.

U. FTSE/JSE Capped Industrial 25 Index (J311)

The FTSE/JSE Capped Industrial 25 Index will consist of constituents of the FTSE/JSE Industrial 25 Index. This index will be capped at 30% at each quarterly review.

V. FTSE/JSE All Share Factor Indexes (J203VF, J203QF, J203VOF, J203SF, J203DF, J203LF, J203MF, J203CF)

The FTSE/JSE All Share Factor Indexes are designed to reflect the performance of companies from the FTSE/JSE All Share Index, capped at 5%, representing a specific set of factor characteristics. For further details regarding the FTSE/JSE All Share Factor Indexes and its underlying methodology, please refer to the FTSE Global Factor Index Series Ground Rules available on www.ftserussell.com.

W. FTSE/JSE Tradable Property Index (J800)

The FTSE/JSE Tradable Property Index consists of the FTSE/JSE Large & Mid Cap Index constituents of the FTSE/JSE All Property Index, which belong to the ICB Real Estate Super Sector (8600). Constituent weightings are based on Shareholder Weighted investable market capitalisation.

The index will have a minimum of 10 constituents. If there are not sufficient companies in the eligible universe to fill 10 constituents, the index will be filled by selecting the largest Real Estate companies in the FTSE/JSE Small Cap Index (J202), when ranked by gross market capitalisation.

Constituent weights will be capped at 15% on a quarterly basis after the application of corporate actions. The capping methodology is detailed in Appendix B (except for the capped percentage that may be different).

X. FTSE/JSE All Property Index (J803)

The FTSE/JSE All Property Index consists of all constituents of the FTSE/JSE Shareholder Weighted All Share Index which belong to the ICB Real Estate Super Sector (8600).

Constituent weights will be capped at 15% on a quarterly basis after the application of corporate actions. The capping methodology is detailed in Appendix B (except for the capped percentage that may be different).

Y. FTSE/JSE SA REIT Index (J805)

The FTSE/JSE SA REIT Index consists of FTSE/JSE All Share Index constituents designated as a South African REIT.

Constituent weights will be capped at 15% on a quarterly basis after the application of corporate actions. The capping methodology is detailed in Appendix B (except for the capped percentage that may be different).

4.5.19 FTSE/JSE Capped Indexes

Capped versions are available for the FTSE/JSE All Share Index, FTSE/JSE Shareholder Weighted All Share Index, FTSE/JSE Top 40 Index and FTSE/JSE Shareholder Weighted Top 40 Index. Each index will have the same constituents and apply the same corporate action treatments as their underlying indexes.

Constituent companies are capped at 10% using prices as at the close of business on the second Friday in March, June, September and December and shares in issue and free float adjusted for corporate actions as at the Monday after the third Friday. The capping is implemented after the close of business on the third Friday of March, June, September and December.

4.5.20 FTSE/JSE Shareholder Weighted Indexes

The constituents of the FTSE/JSE Shareholder Weighted All Share Index are based on the FTSE/JSE All Share Index and selected by gross market capitalisation. The constituents of the FTSE/JSE Shareholder Weighted Top 40 index are independently ranked and selected by their SWIX net market capitalisation. The FTSE/JSE Shareholder Weighted Top 40 Index is not derived from the FTSE/JSE Top 40 Index and potentially will not have the same constituents as the FTSE/JSE Top 40 Index.

Shareholder Weighted variants of the ICB Industry, ICB Sector and SA Sector indexes are calculated. The constituents of the FTSE/JSE Shareholder Weighted Industry, Sector and SA Sector Indexes are identical to the respective Industry, Sector and SA Sector indexes, thus requiring no additional criteria for inclusion. However, the constituents of the FTSE/JSE Shareholder Weighted SA Sector indexes with a fixed number of constituents (SWIX Resource 10, SWIX Industrial 25, SWIX Financial 15 and SWIX Financial & Industrial 30) are independently ranked and selected by their SWIX net market capitalisation. The FTSE/JSE Shareholder Weighted SA Sector indexes, with a fixed number of constituents, are not derived from the respective SA Sector indexes and potentially will not have the same constituents as the respective SA Sector indexes.

The SWIX free float represents the proportion of a constituent's share capital that is held in dematerialised form and registered on the South African share register, maintained by Strate.

4.5.21 FTSE/JSE Style Indexes

The FTSE Style Indexes will have the same constituents as the FTSE/JSE All Share Index, thus requiring no additional criteria for inclusion. There are two indexes representing Value and Growth portfolios. All corporate actions, index additions and index deletions will be applied as per the FTSE/JSE All Share Index.

4.5.22 FTSE/JSE Responsible Investment Index Series

The Responsible Investment Index comprises constituents of the Shareholder Weighted All Share Index (J403) which are also companies that have securities included in the FTSE All World Index. This is a market capitalisation weighted index. Constituents of the eligible universe require a FTSE ESG Rating of 2.0 or above.

The Responsible Investment Top 30 Index comprises the top 30 FTSE ESG rated companies included in the Responsible Investment Index ranked by FTSE ESG Ratings. This is an equally weighted index.

For further details regarding FTSE/JSE Responsible Investment Index Series and the underlying methodology, please refer to the FTSE/JSE Responsible Investment Index Series Ground Rules available on www.jse.co.za.

Section 5

Periodic Review of Constituent Companies

5.0 Periodic Review of Constituent Companies

5.1 Review Dates

5.1.1 The FTSE/JSE Africa Index Series is reviewed semi-annually in March and September. At the March and September semi-annual reviews, liquidity is tested and the universe for the Main and AltX Boards are ranked to determine auto additions and deletions, subject to selection buffers. The largest eligible companies ranked by full market cap, comprising 99% of all eligible Main Board companies will be determined.

At the June and December periodic reviews, new issues and companies newly eligible due to passing free float, will be considered for possible inclusion in the All Share, Fledgling and AltX indices. Constituents of indices with a fixed number of constituents (the FTSE/JSE Top 40, the FTSE/JSE SWIX 40, the FTSE/JSE SAPY, the FTSE/JSE PCAP, the FTSE/JSE Resources 10 Index, the FTSE/JSE Industrial 25 Index, the FTSE/JSE Financial 15 Index, the FTSE/JSE Financial and Industrial 30 Index, their Shareholder Weighted variants, the FTSE/JSE AltX 15 Index) will be ranked to determine auto additions and deletions, subject to selection buffers.

The index reviews will be based on data for the purpose of determining full and investable market capitalisation as at the close of business on the Monday 4 weeks prior to the review effective date. The free float numbers used to determine the investable market capitalisation on review cut date will be based on the most recent shareholder information available. If a company free float was reviewed as part of the free float review process, the updated free float number will be used to determine the investable market capitalisation for ranking purposes on cut date, even though these changes will only be applied to the FTSE/JSE Index Series at start of business on review effective date.

Any constituent changes will be implemented after the close of business on the third Friday of the review month (i.e. effective Monday).

5.1.2 Details of the outcome of the review and the dates, on which any changes are to be implemented, will be published by FTSE/JSE.

5.1.3 The Shariah screening from Yasaar will be reassessed quarterly in March, June, September and December. The Shariah screening process uses data as at the close of business on the Monday 4 weeks prior to the review effective date taking into account new companies being added to the FTSE/JSE All Share Index and the FTSE/JSE Top 40 Index and implemented after the third Friday of the review month (i.e. effective Monday).

5.2 Responsibilities and Reporting

5.2.1 FTSE/JSE is responsible for conducting the review of constituents for the FTSE/JSE Africa Index Series.

5.2.2 FTSE/JSE is responsible for publishing the outcome of the quarterly review.

5.3 Rules for Insertion and Deletion at the Review

5.3.1 The rules for inserting and deleting companies at the review are designed to provide stability in the selection of constituents of the FTSE/JSE Africa Index Series while ensuring that the Index continues to be representative of the market by including or excluding those companies which have risen or fallen significantly.

5.3.2 A security will be inserted into the FTSE/JSE Top 40 Index and the FTSE/JSE SWIX Top 40 index at the periodic review if it rises to position 35 or above when the eligible securities for each index are ranked by investable market capitalisation.

5.3.3 A security will be deleted from the FTSE/JSE Top 40 Index and the FTSE/JSE SWIX Top 40 index at the periodic review if it falls to position 46 or below when the eligible securities for each index are ranked by investable market capitalisation.

5.3.4 A security will be inserted/deleted from the FTSE/JSE All Share index, FTSE/JSE Large & Mid Cap Index, FTSE/JSE Large Cap Index, FTSE/JSE Mid Cap Index and FTSE/JSE Small Cap Index if it rises above/falls below the position stated at the periodic review:

Index	Auto Addition	Auto Deletion
All Share	98.5%	99.5%
Large & Mid Cap	95%	97%
Large Cap	83%	87%
Mid Cap	95%	97%
Small Cap	98.5%	99.5%

5.3.5 A constant number of constituents will be maintained for the FTSE/JSE Top 40 Index, SWIX 40 Index, the FTSE/JSE Industrial 25 Index, the FTSE/JSE Resources 10 Index, FTSE/JSE Financial 15 Index, the FTSE/JSE Financial and Industrial 30 Index, the FTSE/JSE AltX 15 Index, the FTSE/JSE SA Listed Property Index and the FTSE/JSE Capped Property Index. Where a greater number of companies qualify to be inserted in an index than those qualifying to be deleted, 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, 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.

5.3.6 A constant number of constituents will not be maintained for the FTSE/JSE All Share Index, FTSE/JSE Large Cap Index, FTSE/JSE Large & Mid Cap Index, FTSE/JSE Mid Cap Index, FTSE/JSE Small Capitalisation Index, the FTSE/JSE Fledgling Index, the FTSE/JSE Industry Indexes, the FTSE/JSE Sector Indexes, the FTSE/JSE Subsector Indexes, or their Shareholder Weighted variants, or the FTSE/JSE Specialist Indexes that do not have a fixed number of constituents. Stocks, which fall out of the above indexes due to suspension, takeover, etc. will not be replaced, nor will a constituent of these indexes be removed to accommodate new issues or new companies arising from restructuring of constituents, etc.

5.3.7 At the June and December reviews, any new issue that has satisfied the liquidity rule and has a full market capitalisation equal to or above the full market capitalisation of the constituent immediately above the auto addition buffer of the All Share (98.5%), at the previous semi-annual review, will join the relevant index based on the buffers within the All Share index. This will be applicable to the

Large & Mid Cap, Large Cap, Mid Cap and Small Cap indices. Any new issue that falls below the auto addition buffer of the All Share index, immediately after the previous semi-annual review, will join the Fledgling index, if it passes all other eligibility criteria.

- 5.3.8 Where a company is deleted after review changes have been published, but before the periodic changes have been implemented, the highest ranking company from the new Reserve List, excluding current index constituents, will replace the deleted company.

When a constituent is removed from the SA Listed Property or the Capped Property Index, the highest ranking non-constituent when ranked by full market capitalisation (before the application of any investability weightings) in the eligible universe will become eligible for inclusion into the index and will be added to the index simultaneously. In the event that no eligible constituent is available, no constituent addition will be made to the indexes.

5.4 **Monitoring of Eligible Companies**

- 5.4.1 The market capitalisation of companies eligible for inclusion in the FTSE/JSE Africa Index Series is monitored by FTSE/JSE. All listed ordinary securities on the JSE will be used to conduct the periodic reviews.

5.5 **Reserve Lists**

- 5.5.1 FTSE/JSE will be responsible for publishing the five highest ranking non-constituents of the FTSE/JSE Top 40 Index and SWIX 40 index at the time of the periodic review. The appropriate Reserve List will be used in the event that one or more constituents are deleted from the FTSE/JSE Top 40 during the period up to the next quarterly review.
- 5.5.2 FTSE/JSE will also be responsible for publishing the three highest ranking non constituents of the FTSE/JSE Industrial 25 Index, the FTSE/JSE Resources 10 Index, FTSE/JSE Financial 15 Index, the FTSE/JSE Financial and Industrial 30 Index, the FTSE/JSE AltX 15 Index, the FTSE/JSE SA Listed Property Index and the FTSE/JSE Capped Property Index at the time of the periodic review.

Section 6

Changes to Constituent Companies

6.0 Changes to Constituent Companies

6.1 Corporate Actions and Events

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.

6.2 Removal and Replacement

6.2.1 If a constituent is de-listed from the JSE, or ceases to have a firm quotation, or is subject to a take-over or has, in the opinion of the Chairman and Deputy Chairman of the FTSE/JSE Index Series Advisory Committee (or their nominated deputies), 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 market capitalisation eligible on the Reserve List as at the close of the index calculation two days prior to the deletion where applicable.

6.2.2 Where the company to be removed is a constituent of the FTSE/JSE 40 Index or SWIX 40 Index, the replacement company will be taken from the highest ranking company, by investable market capitalisation, on the FTSE/JSE Top 40 Index and SWIX 40 Reserve List as calculated at the time of the replacement. When the company is removed from the FTSE/JSE Large & Mid Cap Index, FTSE/JSE Large Cap Index, FTSE/JSE Mid Cap Index, FTSE/JSE Small Cap Index, the FTSE/JSE All Share Index, the FTSE/JSE Fledgling Index, the FTSE/JSE Industry Indexes, the FTSE/JSE Sector Indexes or the FTSE/JSE Subsector Indexes, or their Shareholder Weighted variants, it will

not be replaced. For all the FTSE/JSE Equally Weighted Indexes, the replacement constituent will take the weight of the removed constituent. If there are more than one constituent deleted at the same time, an average weight will be taken and all replacement constituents will be given the average weight when included to the index.

- 6.2.3 Where the company to be removed is a constituent of a FTSE/JSE index, apart from the indexes in Rule 6.2.2, which has a fixed number of constituents (the FTSE/JSE Resources 10 Index, the FTSE/JSE Industrial 25 Index, the FTSE/JSE Financial 15 Index, the FTSE/JSE Financial and Industrial 30 Index, or their Shareholder Weighted variants, or the FTSE/JSE AltX 15 Index), the replacement company will be the highest ranking company, by investable market capitalisation, in the relevant Reserve List as described in Rule 5.5.2, as calculated at the time of the replacement. Where the company to be removed is a constituent of the FTSE/JSE SA Listed Property Index or the FTSE/JSE Capped Property Index the replacement company will be the highest ranking company, by full market capitalisation, in the relevant Reserve List, as calculated at the time of the replacement.
- 6.2.4 Changes to the FTSE/JSE Large & Mid Cap Index, the FTSE/JSE Large Cap Index, the FTSE/JSE Mid Cap Index and the FTSE/JSE Small Cap Index will be applied automatically to the FTSE/JSE All Share Index.
- 6.2.5 The removal and replacement are effected simultaneously, before the start of the index calculation on the second day following the day on which the event justifying removal was announced. Announcements made after the close of the index calculation are normally deemed to be made on the following business day.
- 6.2.6 A company deleted following a takeover, with a remaining free float of 15% or less, will not be re-considered for index inclusion until completion of a one year trading record.
- 6.2.7 Constituents removed in accordance with Rule 6.2.4, but which continue to trade thereafter will be considered for re-inclusion to the index at the next review, subject to Section 4 and that at least 6 months has passed between deletion and the implementation date of the changes arising from the review.

6.3 Mergers, Restructuring and Complex Takeovers

- 6.3.1 If the effect of a merger or takeover is that one constituent in the FTSE/JSE Top 40 is absorbed by another constituent, the resulting company will remain a constituent of the appropriate index, and a vacancy will be created. This vacancy will be filled by selecting the highest ranking security in the appropriate Reserve as at the close of the index calculation two days prior to the deletion and related indexes adjusted in accordance with Rule 6.2. For all the FTSE/JSE Equally Weighted Indexes, the resulting constituent will take the weight of the largest company in the merger and the replacement constituent will take the weight of the smallest company in the merger.
- 6.3.2 If a constituent company in the FTSE/JSE Top 40 is taken over by a non-constituent company, the original constituent will be removed and replaced by the highest ranking non-constituent on the appropriate Reserve List. Any eligible company resulting from the take-over will be eligible to become the replacement company if it is ranked higher than any company on the Reserve List. The replacement constituent will take the weight of the deleted company in all the FTSE/JSE Equally Weighted Indexes.
- 6.3.3 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 appropriate FTSE/JSE African Indexes based on their respective full market capitalisations, i.e. before the application of any investability weightings and if they qualify in all other respects, e.g. a FTSE/JSE Top 40 Index constituent split into two companies may result in one or both of these companies remaining in the FTSE/JSE Top 40 Index. Where both of these companies remain in the FTSE/JSE Top 40 Index, the smallest

FTSE/JSE Top 40 Index constituent will be deleted from the index.. The weights will be adjusted accordingly for all the FTSE/JSE Equally Weighted Indexes. If there are no changes to the constituents the same weight is used for the company involved in the spin off. If both remain then the largest company in the spin-off will take the weight of the parent company. The smallest company will then take the weight of the deleted company in the index.

- 6.3.4 In case of an unbundling the new constituents will be added to all the indexes that the original company belonged to for a period of 2 days. Index constituent changes resulting from the split will be determined based on the market values at close on day one of trading and applied using market values at close on day two of trading, following the date that the split becomes effective. Consequently the Top 40 or any other index with a fixed number of constituents may have an extra company for 2 days or a Resources Index may have a non-resources company for 2 days. For all the FTSE/JSE Equally Weighted Indexes, the weights will be adjusted according for the 2 companies in the unbundling event. On the day when the smallest company is deleted, the smaller constituent in the unbundling process will take the weight of the removed company, while the larger constituent will take the sum weight of the two unbundled companies. If one of the unbundled entities in the unbundling process is ineligible it will be deleted from the index, the remaining constituent will take the sum weight of the two unbundled entities.
- 6.3.5 If the effect of a merger or takeover is that one constituent is absorbed by another constituent in any other index with a fixed number of constituents, 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 non constituent in the relevant industry as at the close of the index calculation two days prior to the deletion.
- 6.3.6 If a constituent of any other index with a fixed number of constituents is taken over by a non-constituent company, the original constituent will be removed and replaced by the highest ranking non-constituent in the relevant industry(ies). Any eligible company resulting from the takeover will be eligible to become the replacement company if it is the highest ranking non constituent company as at the close of the index calculation two days prior to the completion of the acquisition based on the combined value of the company after the merger.
- 6.3.7 If a constituent of any other index with a fixed number of constituents is split so as to form two or more companies, then the resulting companies will be eligible for inclusion as index constituents in the relevant index based on their respective investable market capitalisations, and if they qualify in all other respects. If a constituent of any other index with a fixed number of constituents splits into two companies, one or both of these companies may remain in the relevant index. Where both of the new companies remain in the relevant index, the smallest constituent will be deleted from the relevant index.

6.4 **New Issues**

- 6.4.1 Where a company, whether an existing constituent or not, undertakes an Initial Public Offering of a new equity security, that security will be eligible for fast entry inclusion to the FTSE/JSE Africa Index Series if its full market capitalisation amounts to 1.0% or more of the full capitalisation of the FTSE/JSE All Share Index, before the application of individual constituent investability weightings) FTSE /JSE will normally decide to include the new security as a constituent of the FTSE/JSE Africa Index Series, for the indexes that it qualifies for after the close of business on the fifth day of official trading. In all cases, advance notification confirming the timing of the inclusion of the new constituent will be given accordingly. The fast entry rule is not applicable to the FTSE/JSE Top 40, FTSE/JSE SWIX 40 (and their derivative indexes), FTSE/JSE Specialist Property Indexes and any index with a fixed number of constituents and also not to any share that is classified as foreign, for index purposes. In the event of the fifth day of trading being in close proximity to an index review,

FTSE/JSE may use its discretion to include a fast entrant at the index review date following advance notice.

6.4.2 For the purpose of this rule, a company which is relisted following suspension or is reorganised or renamed or which arises from a demerger or complex reorganisation of another company which is not an existing constituent, shall not be considered to be a new issue. However, an Initial Public Offering (IPO) which arises from a demerger shall be considered as a new issue.

6.4.3 New issues, including demutualisations, which do not qualify as early entrants to the FTSE/JSE Africa Index Series as defined under Rule 6.4.1 will become eligible for inclusion at the next quarterly review of constituents providing they have, since the commencement of official non-conditional trading, a minimum trading record of at least 20 trading days prior to the date of the review and turnover of a minimum of 0.5% of their shares in issue, after the application of any free float restrictions, per month in each month that the share traded.

6.4.4 The inclusion of early entries as defined under Rule 6.4.1, excluding demutualisations, will not require a minimum trading record.

6.5 **Suspension of Dealing***

6.5.1 In the event that a constituent of a FTSE/JSE Africa Index, other than the FTSE/JSE Top 40 Index, is suspended, the constituent may remain in the FTSE/JSE Africa Index, at the price at which it is suspended, for up to 20 business days, whilst a suspended constituent of the FTSE/JSE Top 40 Index may remain in the Index for up to five business days. During this time FTSE/JSE may delete the constituent immediately at zero value in cases it is expected that the constituent will not recommence trading.

- If a constituent is declared bankrupt, placed under curatorship, business rescue or placed in provisional liquidation, the last traded price will be adjusted down to zero value and it will subsequently be removed from the index with T+2 notice.
- In all other cases, if the company is a constituent of the Top 40 index, the constituent will continue to be included in the index for a period of 5 business days, If the constituent continues to be suspended at the end of that period, it will be removed from the index with T+2 notice at the last traded price.
- In all other cases, the constituent will continue to be included in the index for a period of up to 20 business days at its last traded price.
- If the constituent continues to be suspended at the end of that period, it will be subject to review and a decision will be taken to either allow the constituent to remain in the index for a further period of up to 20 business days or to remove it at zero value. In making this determination, FTSE/JSE will take into account the stated reasons for the suspension. These reasons may include announcements made by the company regarding a pending acquisition or restructuring, and any stated intentions regarding a date for the resumption of trading.
- This procedure will be repeated at successive 20 business day intervals thereafter until either trading recommences or the suspension period reaches 80 business days.
- If the suspension period reaches 80 business FTSE/JSE will provide notice that the constituent will be removed at zero value at the index review immediately following the expiry of a minimum 40 business day notice period.
- In certain limited circumstances where the index weight of the constituent is significant and FTSE/JSE determines that a market-related value can be established for the suspended constituent, for example because similar company securities continue to trade, deletion may take place at the market-related value instead. In such circumstances, FTSE/JSE will set out its rationale for the proposed treatment of the constituent at the end of the 80 business day period.

- If following the end of the 80 business day period, a suspended constituent resumes trading before the Wednesday before the first Friday of March, June, September or December, the deletion notice will be rescinded and the constituent will be retained in the index. If the constituent resumes trading after these dates but before the review effective date, the constituent continue to be removed from the index as previously announced but in these circumstances the deletion may instead be implemented at market value.
- If a constituent has been removed from the index and trading is subsequently restored, the constituent 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.

*The Suspended Companies policy also applies to constituents which have a price that FTSE/JSE considers to be unreliable. This includes Indonesian constituents that have reached the minimum allowable trade price of IDR 50 per share.

6.6 Changes to Constituent Weightings

6.6.1 For the purposes of computing the FTSE/JSE Africa Index Series and to prevent a large number of insignificant weighting changes only shares and float changes occasioned by primary or secondary offerings will be updated outside of the quarterly update cycle WHERE:

- There is a USD 1bn investable market cap change related to a primary/secondary offering;

OR

- There is a resultant 5% change in index shares related to a primary or secondary offerings AND a USD 250m investable market cap change.

These changes will be implemented after the close on the day that the subscription period closes, assuming two days notice can be provided; if two days' notice cannot be provided prior to the end of the subscription period, the change will still proceed with two days' notice and will be implemented at the earliest opportunity.

For example: Subscription close is Monday 4 April and discovery of the event is Friday 1 April. Therefore, implementation will occur with two days' notice, effective on Wednesday 6 April (i.e. close of business Tuesday 5 April).

If discovery of the event occurs more than two days after the close of the subscription period, the changes will be deferred until the quarterly review cycle.

For example: Subscription close is Monday 4 April and discovery of the event is Wednesday 6 April. Therefore, implementation will occur with two days' notice, effective on Monday 11 April (i.e. close of business Friday 8 April). However, if discovery occurred after Wednesday 6 April, the update will be deferred until the next quarterly review.

Please note:

- Index shares is defined as the number of shares in issue x free float.
- The market close price on the day prior to discovery (converted, if necessary, using the WM/Reuters 4pm spot rates from the day prior to discovery) will be used to calculate whether the intra-quarter thresholds have been triggered. Any change to the market price between this date and index implementation will not result in a cancellation of the change. Similarly, if discovery occurs at the beginning of the subscription period and it does not achieve the triggers for intra-quarter implementation; but during the subscription period, the market price moves upwards and the thresholds are consequently triggered, the event will not be implemented and it will be deferred until the quarterly index review.

- The share and free float change triggers are calculated from an international investor stance. In the event that an index constituent is represented both in a global and domestic index (e.g. FTSE/JSE Top 40 and FTSE Global Equity Index Series), the update will only be implemented if the parameters are breached at global level. Such a situation may arise where a constituent is subject to a foreign ownership restriction in the global index.

6.6.2 Adjustments to reflect a major change in the amount or structure of a constituent company's issued capital must be made before the start of the index calculation on the day on which the change takes effect (e.g. the Ex Date for a rights or capitalisation issue). Announcements of corporate events, which are made after the close of the index calculation, are normally deemed to be made on the following day.

6.6.3 Quarterly Updates

In June, a constituent's shares is updated regardless of size. No buffers are applied.

In March, September and December share changes greater than 1% will be updated.

Quarterly updates to shares are applied after the close of business on the third Friday of March, June, September and December. The data cut-off for these quarterly changes is the close of business on the third Wednesday of February, May, August and November.

6.6.4 Free float and share changes resulting from corporate events are not subject to the buffers as detailed in Rules 6.6.1 and 6.6.3 and will be implemented in line with the event.

6.6.5 All adjustments are made before the start of the index calculation on the day concerned unless market conditions prevent this.

6.6.6 Corporate actions in non-market capitalisation indexes, that bring about a change to the shares in issue, free float or price of a constituent, will be treated with a corresponding change to the constituent weighting factor in that index, resulting in both the weight of the constituent in the index, and the index divisor itself being unchanged. This is relevant to the following indexes:

Index Code	Index Name
J2EQ	Equally Weighted Top 40
J3EQ	Equally Weighted Resource 10
J4EQ	Equally Weighted Financial 15
J5EQ	Equally Weighted Industrial 25
J259	Dividend+
J260	RAFI 40*
J263	RAFI All Share*
J283	Capped RAFI All Share*
J261	RAFI 40 - QSR*
J265	RAFI All Share - QSR*

* Please note that capital reductions are not treated on a market capitalisation neutral basis and will result in a price adjustment.

Section 7

Industry Classification Benchmark

7.0 Industry Classification Benchmark

7.1 Classification of Constituents within Industry and Sectors

- 7.1.1 The classification of a constituent may change from time to time. The reassessment of the industry and sector to which a constituent belongs will be made by the FTSE Industry Classification Benchmark Committee and reported to the JSE Indices Department for implementation.
- 7.1.2 The constituents of the corresponding Industry Indexes, Sector Indexes and the Specialist Indexes based on a particular Subsector will be affected when the classification of a company changes.

7.2 Changes to Industry Classification of Constituents

- 7.2.1 Where a constituent is the subject of a merger, restructuring, or complex take-over which results in a constituent, or part of a constituent, being absorbed by another, the industry sector classification of the resulting constituent(s) will be determined by the FTSE Industry Classification Benchmark Committee.
- 7.2.2 Any adjustment resulting from a change in a company's classification will be implemented at the same time that any relevant constituent changes are implemented in the Index.
- 7.2.3 Periodic changes to the industry classification of a company will be agreed and announced by the FTSE Industry Classification Benchmark Committee.

7.3 Industry Classification Benchmark Committee

- 7.3.1 The FTSE Industry Classification Benchmark Committee is responsible for the industry classification of constituents of the FTSE/JSE Africa Index Series within the Industry Classification Benchmark System. The FTSE Industry Classification Benchmark Committee may approve changes to the Industry Classification Benchmark System and Management Rules.
- 7.3.2 The classification of securities within industry is undertaken by FTSE and the JSE.

Section 8

Index Calculation

8.0 Index Calculation

8.1 Index Algorithm

8.1.1 All indexes within the FTSE/JSE Africa Index Series will be displayed to one decimal point.

8.1.2 The FTSE/JSE Africa Index Series is calculated using the following formula:

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

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).
- 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/JSE 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.
- 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.

Section 9

Status of Indexes

9.0 Status of Indexes

9.1 The FTSE/JSE Africa Index Series is calculated in real time and may exist in the following states:

9.2 Firm

The indexes are calculated on actual trades generated by the JSE trading system during the trading hours of the JSE.

The Official Closing Index is the last index value calculated at the end of the firm period using the closing price from the JSE.

9.3 Closed

The indexes have ceased all calculations for the day. The message 'CLOSE' will be displayed against the index value calculated by FTSE Russell.

9.4 Held

During Official JSE Market Hours, an index has exceeded pre-set operating parameters and the calculation has been suspended pending resolution of the problem. The message 'HELD' will be displayed against the last index value calculated by FTSE Russell.

9.5 Indicative

If there is a system problem or situation in the market that is judged to affect the quality of the constituent prices at any time when an index is being calculated, the index will be declared indicative (e.g. normally where a 'fast market' exists in the equity market). The message 'IND' will be displayed against the index value calculated by FTSE Russell.

9.6 The official opening and closing hours of the FTSE/JSE Africa Index Series are in line with the trading hours on the JSE Trading system. Variations to the official hours of the indexes are published by FTSE/JSE as appropriate.

9.7 The FTSE/JSE Africa Index Series is calculated on all days when the JSE is open for trading.

Section 10

Appendix A – Further Information

10.0 Appendix A – Further Information

10.1 Contacting FTSE & JSE

Further information on the FTSE/JSE Africa Index Series is available from FTSE and the JSE.

Enquiries should be addressed in the first instance to:

JSE Limited
Indices Department
One Exchange Square,
2 Gwen Lane,
Sandown 2196,
Sandton 2146,
Republic of South Africa

Tel: +27 (11) 520 7137

Website: www.jse.co.za

FTSE
Client Services
FTSE Group
10 Paternoster Square
London
EC4M 7LS

Tel: +44 (0) 20 7866 1810

Fax: +44 (0)20 7866 1804

E-mail: info@ftserussell.com

Website: www.ftse.com/jse

Section 11

Appendix B – Methodology for Capping Indexes

11.0 Appendix B – Methodology for Capping Indexes

11.1 Capping Methodology at Quarterly Reviews

Capping will only be applied at the quarterly review and therefore the percentage weight of any constituent in the index may move above/below the capped level during the quarter due to price changes and corporate actions.

1. The capping procedure is applied to the indexes after the close of business on the third Friday of March, June, September and December and will be effective at the start of business on the following business day.
2. Any changes in constituents or corporate actions/events which take place on the following business day will be taken into account before the capping procedure is applied.
3. The calculation of the constituent weighting factors will be based on instrument prices taken on the second Friday of March, June, September and December.
4. Upon completion of the above steps the capping procedure is applied using the following algorithm:-

NB. The algorithm is applied to each constituent which requires capping, i.e. any constituent whose uncapped weight is greater than the capping level.

The Constituent Capping Factor c_i is given by:

$$c_i = \frac{Z}{I \times (p_i \times s_i \times f_i)} \sum_{j \in J} (p_j \times s_j \times f_j)$$

Where,

- i denotes the security to be capped.
- j denotes an uncapped security.
- J is the subset of securities that are uncapped.
- p_k is the official closing price of the k^{th} security.
- s_k is the number of shares in issue of the k^{th} security.
- f_k is the free float factor of the k^{th} security.
- I is the percentage of the index represented by all uncapped constituents.
- Z is the percentage capping level

The constituent capping factor is calculated for all constituents whose uncapped weight after the application of investability weightings is greater than the Capping Level. The weights of the capped and uncapped constituents in the index are then calculated. If following the application of this capping procedure other constituents have moved above the Capping Level in weight then the process is repeated including the new constituent(s) which require capping.

FTSE/JSE Capped and Equally Weighted Indexes

The construction of the FTSE/JSE Capped and Equally Weighted Indexes follows the construction of existing FTSE/JSE Indexes and only differ with regards to the maximum weight of each constituent. For clarity, the following characteristics of the FTSE/JSE Capped and Equally Weighted Indexes will remain identical to that of the index on which they are based:

- number of constituents and also the list of constituents
- application of liquidity screening
- free float bands
- eligibility criteria
- underlying data such as shares in issue, share prices and so on

List of Capped and Equally Weighted Indexes in the FTSE/JSE Africa Index Series:

Index Code	Index Name	Based on	Capping Level
J141	Capped Shariah Top 40	Shariah Top 40	10%
J2EQ	Equally Weighted Top 40	Top 40	2.5%
J3EQ	Equally Weighted Resource 10	Resource 10	10%
J4EQ	Equally Weighted Financial 15	Financial 15	6.67%
J5EQ	Equally Weighted Industrial 25	Industrial 25	4%
J254	Capped Property	N/A	15%
J260	RAFI 40*	All Share	10%
J283	Capped RAFI All Share	All Share	10%
J261	RAFI 40 - QSR	All Share	10%
J300	Capped Top 40	Top 40	10%
J303	Capped All Share	All Share	10%
J310	Resources 10 Capped Index	Resources 10 Index	30%
J311	Capped Industrial 25 Index	Industrial 25	30%
J430	Capped Shareholder Weighted Top 40	Shareholder Weighted Top 40	10%
J433	Capped Shareholder Weighted All Share	Shareholder Weighted All Share	10%
J800	Tradable Property Index	Large & Mid Cap	15%
J803	All Property Index	Shareholder Weighted All Share	15%
J805	SA REIT Index	All Share	15%

Section 12

Appendix C – Methodology for Shareholder Weighted Indexes

12.0 Appendix C – Methodology for Shareholder Weighted Indexes

12.1 Shareholder Weighted Index Calculation

The SWIX free float is based on the portion of listed share capital, on the South African share register, in dematerialised form. This information is obtained from Strate (Strate is the authorised Central Securities Depository for the electronics settlement of all financial instruments in South Africa).

An average of the total holdings on the South African share register, in the 3 months prior to the review month, with a one month lag, is used to calculate the SWIX free float. In the event that this figure is not available, the FTSE/JSE company free float is used.

In addition all securities deemed not available for local trade, but included on the South African share register will be subtracted from the free float number calculated as per above. This will initially include holdings confirmed to back a listed, sponsored Depository Receipt (DR) program.

Where the company's free float is lower than its SWIX free float, the company free float will be used.

$$\text{Min} \left[\frac{\text{South African Register-Locally Unavailable Scrip}}{\text{Total Listed Shares}} ; \text{Company Free Float} \right]$$

The SWIX free float is calculated for all constituents of the SWIX indexes.

The constituents of the FTSE/JSE Shareholder Weighted Top 40 index are independently ranked and selected by their SWIX net market capitalisation. The FTSE/JSE SWIX Top 40 Index is not derived from the FTSE/JSE Top 40 Index and potentially will not have the same constituents as the FTSE/JSE Top 40 Index.

The construction of the FTSE/JSE SWIX All Share Index follows the construction of the FTSE/JSE All Share Index. The following characteristics of the FTSE/JSE SWIX All Share Index will remain identical to that of the FTSE/JSE All Share:

- number of constituents and also the list of constituents,
- application of liquidity screening,
- index calculation method (shares in issue * free float * price), eligibility criteria,
- underlying data such as shares in issue, share prices and so on,
- application of corporate actions.

Section 13

Appendix D – Methodology for Style Indexes

13.0 Appendix D – Methodology for Style Indexes

13.1 Eligible Securities

The constituents of the FTSE/JSE Style Indexes will mirror the constituents of the FTSE/JSE All Share Index at all times.

13.2 Index Data Elements

All index related data of constituents of the FTSE/JSE Style Indexes, including but not limited to shares in issue, free float and closing prices, will be identical to that of the FTSE/JSE All Share Index.

13.3 Calculation Frequency

The FTSE/JSE Style Indexes will only be calculated end of day.

13.4 Periodic Review of Constituents

The constituents of the FTSE/JSE Style Indexes will mirror the constituents of the FTSE/JSE All Share Index at all times, including the changes at quarterly index reviews. The style items (including value and growth rankings) as calculated from basic accounting data will be reviewed semi-annually in March and September of each year. These changes will be applied simultaneously with the respective quarterly index reviews.

13.5 Fundamental Data Items

13.5.1 The basic accounting data to calculate the above measures are provided by McGregor BFA.

13.5.2 Basic accounting data is accumulated for each constituent and used to calculate the style items. The following style items are used to calculate the Style Ranking for each company:

Value Measures

- Book to Price

Book to Price is a company's common/ordinary equity capital at the most recent fiscal year end divided by the company's market capitalisation at the review date. Common/ordinary equity is generally as reported, but is adjusted to exclude minority interest, preferred stock and selected items as appropriate.

- Sales to Price

Sales to Price is a company's most recent annual sales value divided by the company's market capitalisation at the review date. (A more detailed definition of sales is provided under the "3 Year historic sales growth" heading).

- Dividend Yield

Dividend Yield reflects the dividend declared per share and/or paid for the security in question for the most recent fiscal year, divided by the share price. It excludes special dividends but includes extra dividends. It is based on the "gross" dividend of a security, including normal withholding tax but excluding the special tax credit available in some countries.

- Cash Flow to Price

Cash Flow to Price is generally a company's most recent Cash Flow for the year divided by the market capitalisation of the company at the review date. If Cash Flow is not reported it is estimated based on net income plus depreciation and other non-cash items.

Growth Measures

- 3 Year Historic Earnings Per Share Growth

3 Year Historic EPS Growth is the average of the company's three most recent consecutive absolute EPS annual growth values. The most recent EPS value should be less than 18 months old (in developed markets). Annual earnings per share (EPS) is for the 12 months to fiscal year end. EPS is calculated as net income after taxes, minority interest and preferred dividends, but before amortization of intangibles and after-tax extraordinary items, divided by adjusted shares.

- 3 Year Historic Sales Growth

3 Year Historic Sales Growth reflects the average of the company's three most recent consecutive absolute net sales or revenue annual growth values. The most recently reported sales value should be less than 18 months old (in developed markets). Sales values are for the 12 months to the company's fiscal year end and are generally as reported by the company. However, sales are generally adjusted to exclude excise taxes, sales from non-operating activities and discontinued operations in addition to sales generated by associated companies. If the company has changed its year end and a 12 month figure is not reported, the reported value is annualised. A sales value is also calculated for banks, insurance & financial companies and includes interest, investment & premium income in addition to commission & fees as appropriate.

- 2 Year Forward Earnings Per Share Growth

EPS estimates are generally based on net income from continuing operations divided by weighted average shares outstanding for the year.

- 2 Year Forward Sales Growth

Sales estimates generally reflect sales derived from the company's core-operating activities. Generally transportation & non-operating costs are excluded from gross revenues for industrial corporations. Bank revenues include interest and non-interest income. Insurance revenues are comprised of net technical income and net financial income.

- Return On Equity*(1 - Payout Ratio)

Return on Equity is Earnings per Share (EPS) for the most recent fiscal year divided by the previous year's book value per share. Payout ratio is Dividend per Share (DPS) divided by EPS. Values are again for the 12 months to the most recent fiscal year end. *(More detailed EPS, Book Value and dividend per share definitions can be found under the "3 Year historic EPS growth", "Book to Price", "Dividend Yield" headings respectively).*

13.5.3 The style items are subsequently normalised:

- The data on each x-axis is truncated (see below). Outliers beyond the truncation limits remain outside of the truncation limit itself. No data item is discarded.
- The truncation levels for each fundamental data item are as follows:-

Value Measures	Lower Level	Upper Level
Book to price	-20	20
Sales to price	-30	30
Dividend Yield	0	20
Cash Flow to Price	-200	200

Growth Measures	Lower Level	Upper Level
3 Year Historic Earnings Per Share Growth	-200	200
3 Year Historic Sales Growth	-70	70
2 Year Forward Earnings Per Share Growth	-200	200
2 Year Forward Sales Growth	-70	70
Return On Equity* (1 - Payout Ratio)	-300	300

- Following truncation, the data on each x-axis then has three standard deviations applied. Again, any outliers beyond three standard deviations remain outside of the three standard deviation limit. No data is discarded.
- The x-axis is then ranked so that 0 appears at the value end of the axis and 100 at the growth end. For the four value data items, the value measure is then found by identifying where on the x-axis each constituent lies and allocating that number as the value measure for each of the four value data items. The growth measures for the five growth data items are found in the same way. Those constituents which remain outside the truncation and standard deviation limits are then allocated the style rankings (either 0 or 100) dependant on which end of the x-axis they are.
- In order to find the value ranking for each constituent the four value measures for the constituent are added and divided by four.
- In order to find the growth measures for each constituent the five growth measures for the constituent are added and divided by five.
- If one or more of the value or growth measures are missing the value or growth measure will be divided by the requisite number of data items available.
- In order for the VR or GR to be calculated in this way data on at least one value date item and one growth data item must be available for the constituent. If this is not the case the constituent will have both value and growth rankings applied from its Subsector classification.
- The allocation of VR and GR by sub sector only occurs when there is no data item available for value and no data item available for growth.

- In this case both the VR and GR are calculated by taking the average of all of the value rankings and then the average of all of the growth rankings in the companies sub sector as defined by the Industry Classification Benchmark system provided at least two constituents are available in this Subsector. If there are less than two constituents on a regional basis then the FTSE All-World Index will be used.
- Once the Value and Growth Rankings have been calculated, they are then used to determine the Overall Style Ranking (OSR) for each index constituent. The OSR is the average of the Value and Growth Ranking for each constituent. The Overall Style Ranking is used to determine the Value and Growth weighting for each constituent in the FTSE/JSE All Share Index.

13.6 Index Construction at Semi Annual Review

The companies in the FTSE/JSE All Share Index are ranked according to their Overall Style Ranking. Growth is at the top (high OSR) of the ranking and value at the bottom (low OSR) of the ranking.

Constituents showing high growth characteristics (OSR tending towards 100) will be allocated to the Growth Index of the underlying Style Benchmark at a weight of 100%.

Constituents showing high value characteristics (OSR tending towards 0) will be allocated to the Value Index of the Style Benchmark at a weight of 100%.

The constituents covering the middle 30% of the investable market capitalisation of the FTSE/JSE All Share Index will be allocated across both the Value and Growth Indexes according to the following bands:-

Investable Market Capitalisation	Style Weighting in Index
Between 55% and 64.99%	75% Growth/25% Value
Between 45% and 54.99%	50% Growth/50% Value
Between 35.01% and 44.99%	25% Growth/75% Value

The methodology gives rise to certain company's investable market capitalisation falling either side of a particular band. In these circumstances the constituent's style weight will be apportioned across the bands so as to ensure that its investable market capitalisation remains exactly the same as in the underlying benchmark.

In the case of a fast entry to the FTSE All Share Index the Value Ranking and Growth Ranking will be determined by reference to the Industry Classification Benchmark System Subsector of the fast entry constituent. In the first instance this will be by reference to the relevant Subsector of the fast entry constituent in the FTSE/JSE All Share Index. If there are less than two companies in the Subsector, reference will be made to the relevant global Subsector in the FTSE All World Index.

Rights issues, scrip issues and similar corporate events will be applied in exactly the same way as they are applied to the FTSE/JSE All Share Index. No change will be made to the VR, GR, OSR or Style Weighting of the company due to the event.

In the case of a takeover the Value Ranking, Growth Ranking and Overall Style Ranking of the largest company by full market capitalisation will be applied to the company(ies) being taken over.

In the case of a merger the Value Ranking, Growth Ranking and Overall Style Ranking of the largest company, as defined by the full market capitalisation of the companies subject to the merger, will be adopted by the newly merged company.

In the case of a demerger the Value Ranking, Growth Ranking and Overall Style Ranking of the demerged companies will remain the same as the unmerged company. The demerged companies will be treated as separate companies for VR, GR and OSR purposes at the next FTSE/JSE Style Index review.

13.7 FTSE/JSE Style Index Algorithms

Let:

- F_{cst} = free Float of company s at time t
- SW_{cst} = the style weighting of company s at time t
- N_{cst} = number of shares in issue for company s at time t
- P_{cst} = price in local currency for company s at time t
- S = summation of company data within All Share
- I_{ct} = value of index at time t

$$\text{A FTSE/JSE Style Index at time t } I_{ct} = \frac{\sum N_{cst} P_{cst} F_{cst} SW_{cst}}{B_{ct}}$$

where B_{ct} is the index base adjusted for past capital changes.

Section 14

Appendix E – FTSE/JSE Dividend+ Index

14.0 Appendix E – FTSE/JSE Dividend+ Index

14.1 FTSE/JSE Dividend+ Index Methodology

The FTSE/JSE Dividend+ Index is a yield weighted index designed to select and measure the performance of higher yielding stocks within the universe of the FTSE/JSE All Share Index. The FTSE/JSE Dividend+ Index selects the top 30 stocks by one-year forecast dividend yield. The constituents' weightings within the index are determined by their dividend yield as opposed to market capitalisation.

14.2 Review Universe

At review the universe will comprise of constituents from the FTSE/JSE Large & Mid Cap index, excluding property companies where property companies are defined as those belonging to the Real Estate Investment and Services Sector 8630 and Real Estate Investment Trusts Sector 8670.

14.3 Index Data Elements

All data elements will be inherited from the FTSE/JSE Africa Index Series. The dividend yield data will be based on the 1-year dividends per share forecast/estimates (excluding capital repayments and special dividends) sourced from INET BFA. To be able to rank the review universe the 1-year dividends per share forecast/estimates are divided by the underlying stock price at the review data cut-off date. The data will be obtained from the data provider on the cut-off date of the periodic review. In cases where no forecast exists for a current constituent, it will be removed from the index.

The dividend yield of the index will be calculated according to the existing methodology for the FTSE/JSE Africa Index Series, which include event types CD (cash dividends) and IT (interest payments for loan stock) as shown on the JSE Corporate Actions Schedule.

14.4 Periodic Review of Constituents

The index will be reviewed semi-annually in March and September as part of the FTSE/JSE quarterly index review.

At the time of the semi-annual review the selection of Dividend+ Index constituents is based on data taken on review cut date (the Monday 4 weeks prior to the review effective date). Dividend+ factors for constituents are calculated using price data from the second Friday of March and September.

The semi-annual reviews will be implemented in line with the FTSE/JSE Africa Index Series – implemented after the close of trading on the third Friday (i.e. effective Monday) of March and September.

The review universe outlined in Rule 14.2 is screened for liquidity by removing the bottom 5% of companies; ranked in descending order by one-year median daily traded value. The daily traded value is obtained from the sum of the actual daily value traded (actual traded price multiplied by the respective trading volume) over 12 full months prior to the review cut-off date.

The review universe is then ranked in descending order by the forecast/estimate one-year dividend yields. To reduce index turnover buffers are used. Constituents that rank 20th place or above are added to the index, constituents that rank below 40th place are removed from the index. Both 20 and 40 are dependent on the current fixed number of constituents in the index.

To maintain a consistent 30 stocks at review, if there are less than 30 constituents after the above process, the next highest-ranking non constituent is added until the 30 index stocks are selected. If more constituents are added than deleted at review, and this leads to an index of greater than 30 constituents, the lowest ranking constituents are removed until the index comprises of 30 constituents.

Where a company has more than one line of stock and both are eligible for inclusion into the index, both lines will be included and counted individually. If the two lines have different dividend yields they will be treated separately according to their dividend forecast.

To prevent a large number of constituent changes a maximum limit of 5 additions and 5 deletions are used at each periodic review.

14.5 **Calculation Methodology**

Each of the 30 index constituents are weighted within the index at review by their forecast/estimate one year dividend yields. This constitutes the dividend yield (DY) factor for each constituent. The dividend yield factor is applied to the investable market capitalisation of each stock to either increase or reduce the stocks weight within the index. This factor will be adjusted for corporate actions between semi-annual reviews to maintain market capitalisation neutrality.

14.6 **Calculation Frequency**

The FTSE/JSE Dividend+ price index will be calculated in real time, every 15 seconds. A total return index will be calculated on an end of day basis.

14.7 **Main Calculation Currency**

The index will be calculated and published in Rands only.

14.8 **Intra-review Changes**

This index will maintain a constant number of 30 constituents. Intra-review changes will be in line with the underlying FTSE/JSE All Share Index. A constituent will be removed from the FTSE/JSE Dividend+ Index if it is also removed from the underlying FTSE/JSE All Share Index.

If a constituent is acquired by a non-constituent, the company will be removed from the FTSE/JSE Dividend+ Index.

Where two index constituents merge, or one index constituent is acquired by another constituent, the factor that is applied to the investable market capitalisation is adjusted so that the new entity remains the same weight within the index as the combined remerged index weights. If an index constituent has a complex reorganisation or demerger, the newly spun-off company will be removed from the index after two days. In order to maintain transparency in this index, a reserve list will be determined at the semi-annual reviews. The reserve list will consist of 5 eligible non-constituents with the highest one year forward dividend yield.

14.9 FTSE/JSE Dividend+ Index Algorithm

The index algorithm and calculation methodology are detailed below:

F_{cst} = free float of company s at time t

N_{cst} = number of shares in issue for company s at time t

P_{cst} = price in local currency for company s at time t

S = summation of company data within All Share

I_{ct} = value of index at time t

C_{cst} = dividend factor that is applied to each security to allow its weight within the index to be adjusted according to each forecast dividend yield

$$\text{A FTSE/JSE Dividend+ Index at time t } I_{ct} = \frac{\sum_s N_{cst} P_{cst} F_{cst} C_{cst}}{B_{ct}}$$

where B_{ct} is the index base adjusted for past capital changes.

Section 15

Appendix F – FTSE/JSE Preference Share Index

15.0 Appendix F – FTSE/JSE Preference Share Index

15.1 FTSE/JSE Preference Share Index Methodology

Preference shares are defined as shares bearing a fixed annual rate of dividend with a prior right over all ordinary shares in the distribution of dividends from annual profits; and a prior claim to repayment of capital on a winding-up of the company. Unless such shares are specifically defined as non-cumulative the company is liable for any arrears of preference dividends.

The main purpose of the index is to create a transparent asset class.

15.2 Universe

The universe of this index will consist of only floating rate perpetual preference shares and only the ones that are not convertible.

15.3 Underlying Data

The underlying data for this index will be drawn entirely from the JSE. No data is required from external parties. The floating rate preference shares (FR-PS) should all have a free float set at 100% for the following reasons:

- There is no capital gain from the FR-PS
- They are held like bonds
- FR-PS have no voting rights

15.4 Calculation Methodology

A price and a total return index will be calculated.

The index will be market capitalisation weighted.

The index will only be calculated end of day.

15.5 Periodic Reviews

This index will be reviewed quarterly in line with the current FTSE/JSE indexes. The fast entry rule will not apply to this index. Additions will only be considered at quarterly index reviews.

15.6 Corporate Actions

Corporate actions will be treated according to what appears on the JSE CA Schedule. The issuers of the preference shares are the best people to determine these. A blanket application of corporate actions to the preference shares and the underlying companies will not be accurate.

Section 16

Appendix G – FTSE/JSE Net of Tax Indexes

16.0 Appendix G – FTSE/JSE Net of Tax Indexes

16.1 List of FTSE/JSE Net of Tax Indexes

In addition to the FTSE/JSE Africa Total Return Indexes which are calculated gross of South African Dividend Withholding Tax but net of foreign dividend withholding taxes, the following equivalent Net Total Return Indexes will also be calculated:

Index Code	Index Name
JNX4	Shareholder Weighted Top 40 Index Net TRI
JNS4	Shariah Top 40 Index Net TRI
JNR4	RAFI 40 Index Net TRI
JN00	Top 40 Index Net TRI
JN0U	Top 40 Index - USD Net TRI

In calculating Net Total Return Indexes, withholding tax is deducted from the declared dividend with the resulting net dividend used in the XD adjustment.

Formula for determining net dividends:

$$\left((GLR - STC_CR) - \left(\frac{WT\% - FT\% + SARR\%}{100} \right) \right) + STC_CR$$

Where:

- GLR = Gross Local Rate
- STC_CR = Secondary Tax on Companies Credit Rate
- WT = Withholding Tax
- FT = Foreign Tax
- SARR = South African Residents Reclaim

Please note: The resulting net dividend amounts used in the calculation of the above indexes are published within the daily JSE CA Schedule.

© 2018 London Stock Exchange Group plc and its applicable group undertakings (the “LSE Group”) and the JSE Limited (“JSE”). The LSE Group includes (1) FTSE International Limited (“FTSE”), (2) Frank Russell Company (“Russell”), (3) FTSE TMX Global Debt Capital Markets Inc. and FTSE TMX Global Debt Capital Markets Limited (together, “FTSE TMX”) and (4) MTSNext Limited (“MTSNext”). All rights reserved.

The FTSE JSE Africa Index Series is calculated by FTSE or its affiliate, agent or partner.

FTSE Russell® is a trading name of FTSE, Russell, FTSE TMX and MTS Next Limited. “FTSE®”, “Russell®”, “FTSE Russell®”, “MTS®”, “FTSE TMX®”, “FTSE4Good®” and “ICB®” and all other trademarks and service marks used herein (whether registered or unregistered) are trade marks and/or service marks owned or licensed by the applicable member of the LSE Group or their respective licensors and are owned, or used under licence, by FTSE, Russell, MTSNext, or FTSE TMX. “JSE” is a trade mark of JSE.

All information is provided for information purposes only. Every effort is made to ensure that all information given in this publication is accurate, but no responsibility or liability can be accepted by any member of the LSE Group; nor JSE, nor their respective directors, officers, employees, partners or licensors for any errors or for any loss from use of this publication or any of the information or data contained herein.

No member of the LSE Group; nor JSE, nor their respective directors, officers, employees, partners or licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the results to be obtained from the use of the FTSE JSE Africa Index Series or the fitness or suitability of the Index Series for any particular purpose to which it might be put.

No member of the LSE Group; nor JSE, nor their respective directors, officers, employees, partners or licensors provide investment advice and nothing in this document should be taken as constituting financial or investment advice. No member of the LSE Group; nor JSE, nor their respective directors, officers, employees, partners or licensors make any representation regarding the advisability of investing in any asset. A decision to invest in any such asset should not be made in reliance on any information herein. Indexes cannot be invested in directly. Inclusion of an asset in an index is not a recommendation to buy, sell or hold that asset. The general information contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

No part of this information may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the applicable member of the LSE Group. Use and distribution of the LSE Group index data and the use of their data to create financial products require a licence with FTSE, Russell, FTSE TMX, MTSNext and/or their respective licensors.