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Section 1

Introduction

1.0 Introduction

1.1 This document sets out the Ground Rules for the construction and management of the FTSE EPRA Nareit Global Real Estate Index Series. Copies of the Ground Rules are available from FTSE International Limited (“FTSE”).

1.2 The FTSE EPRA Nareit Global Real Estate Index Series is designed to represent general trends in eligible listed real estate stocks worldwide. Relevant real estate activities are defined as the ownership, trading and development of income-producing real estate.

1.3 The FTSE EPRA Nareit Global Real Estate Index Series provides investors with a comprehensive and complementary set of indexes which range from regional and country indexes, Dividend+ indexes, Investment Focus indexes and a REITs and Non-REITs series. The index series is designed to reflect the stock performance of companies engaged in specific aspects of the major real estate markets/regions of the world - Americas, EMEA (Europe, Middle East and Africa) and Asia.

The Global Real Estate market is defined in Appendix 1.

1.4 Index Construction Methodology

The FTSE EPRA Nareit Global Real Estate Index Series includes the indexes which can be grouped into global, regional and specialist.

A breakdown of the indexes within the series is defined in Appendix 2.

1.5 Two values for each index are calculated: (1) a capital return and (2) a total return. A net total return value is also calculated (see Appendix 3).

1.6 The main calculation currency is the Euro although the indexes are also calculated in US Dollar, British Sterling and Japanese Yen on an end-of-day basis. The FTSE EPRA Nareit Pure Australia Index is also calculated in Australian dollars. The main calculation currency for the FTSE EPRA Nareit Developed Asia 33 Index is Hong Kong Dollars.

1.7 IOSCO

1.7.1 FTSE considers that the FTSE EPRA Nareit Global Real Estate Index Series meets the IOSCO Principles for Financial Benchmarks as published in July 2013.

1.8 FTSE Russell hereby notifies users of the index series that it is possible that circumstances, including external events beyond the control of FTSE Russell, may necessitate changes to, or
the cessation of, the index series and therefore, any financial contracts or other financial instruments that reference the index series 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.

1.9 Index users who choose to follow this index or to buy products that claim to follow this index should assess the merits of the index’s rules-based methodology and take independent investment advice before investing their own or client funds. No liability whether as a result of negligence or otherwise is accepted by FTSE Russell or any members of the FTSE EPRA Nareit Global Index Advisory Committee 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 or any constituent data.

1.10 FTSE Russell

Section 2
Management Responsibilities

2.0 Management Responsibilities

2.1 FTSE International Limited (FTSE)

2.1.1 FTSE is the benchmark administrator of the index series.¹

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

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

2.2 EPRA and Nareit

2.2.1 EPRA and Nareit are responsible for conducting the analysis of financial statement related eligibility tests including the EBITDA test for potential and current constituents in order to establish their eligibility for inclusion in the FTSE EPRA Nareit indexes and their allocation to the emerging and developed sub-series. EPRA and Nareit will also determine a constituent’s Investment Focus segment and classify each constituent by Property Sector.

2.2.2 EPRA and Nareit also provide research, guidance and clarification with respect to certain aspects of the structure, operations and financial reporting of companies that may bear on their index eligibility, as well as to regulatory requirements pertaining to certain companies that may restrict some investment organizations from investing in such companies and the equity indexes that include them as constituents.

¹ The term administrator is used in this document in the same sense as it is defined in Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds (the European Benchmark Regulation).
2.3 Advisory Committees

2.3.1 To assist in the oversight of the indexes three FTSE EPRA Nareit regional committees have been established.

- The FTSE EPRA Nareit Asia Index Advisory Committee
- The FTSE EPRA Nareit EMEA Index Advisory Committee
- The FTSE EPRA Nareit Americas Index Advisory Committee

The Terms of Reference of the FTSE EPRA Nareit Advisory Committees are set out on the FTSE Russell website and can be accessed using the link below.

[FTSE_EPRA_Nareit_Regional_Advisory_Committee.pdf]

2.4 FTSE Russell is responsible for the day-to-day management of the FTSE EPRA Nareit Global Real Estate Index Series and for decisions regarding the interpretation of these ground rules.

2.5 These rules may be supplemented, amended in whole or in part, revised or withdrawn at any time. Supplements, amendments, revisions and withdrawals may also lead to changes in the way the index is compiled or calculated or affect the FTSE EPRA Nareit Global Real Estate Index Series in another way. All decisions will be published immediately. A period of at least three months should pass between the date a proposed change is published and the date this comes into effect, unless the change is not in conflict with the interests of an affected party. No liability can be accepted for any losses resulting from supplementing, amending, revising or withdrawing the Ground Rules for the FTSE EPRA Nareit Global Real Estate Index Series.

2.6 The compiler of the FTSE EPRA Nareit Global Real Estate Index Series will do everything within its power to ensure the accuracy of the composition, calculation, publication and adjustment of the FTSE EPRA Nareit Global Real Estate Index Series in accordance with relevant rules. However, the compiler of the FTSE EPRA Nareit Global Real Estate Index Series and the FTSE EPRA Nareit Global Real Estate Index Series Advisory Committees cannot accept any liability for any inaccuracy in share prices, calculations and the publication of the index, the information used for making adjustments to the index and the actual adjustments.

2.7 Amendments to these Ground Rules

2.7.1 These Ground Rules shall be subject to regular review by FTSE Russell to ensure that they continue to best reflect the aims of the index series. The review process will include consultation on any proposed changes with the FTSE EPRA Nareit Regional Advisory Committees.

2.7.2 As provided for in the Statement of Principles for FTSE Russell Equity Indexes, where FTSE Russell or the FTSE EPRA Nareit Regional 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 Russell shall advise the market of its decision at the earliest opportunity. Any such treatment will not be considered as an exception or change to the Ground Rules, or to set a precedent for future action, but FTSE Russell will consider whether the Ground Rules should subsequently be updated to provide greater clarity.

2.8 Status of these Ground Rules

2.8.1 These Ground Rules set out the methodology and provide information about the publication of the FTSE EPRA Nareit Global Real Estate Index Series.
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 Ground Rules do not fully cover a specific event or development, FTSE Russell will determine the appropriate treatment by reference to the Statement of Principles which summarises the ethos underlying FTSE Russell’s approach to index construction. The Statement of Principles is reviewed annually and any changes proposed by FTSE Russell are presented to the FTSE Russell Policy Advisory Board for discussion before approval by FTSE Russell’s Product Governance Board.

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

[Statement_of_Principles.pdf]

3.3 Queries, Complaints and Appeals

3.3.1 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:

[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:

[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:

[Index_Policy_in_the_Event_Clients_are_Unable_to_Trade_a_Market.pdf](#)

3.6 **Recalculation Policy and Guidelines**

3.6.1 The FTSE EPRA Nareit Global Real Estate Index Series are recalculated whenever errors or distortions occur that are deemed to be significant. Users of the Index Series are notified through appropriate media.

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

[Recalculation_Policy_and_Guidelines_Equity_Indexes.pdf](#)

3.7 **Policy for Benchmark Methodology Changes**

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

[Policy_for_Benchmark_Methodology_Changes.pdf](#)
4.0 Eligibility Criteria

4.1 The FTSE EPRA Nareit Global Real Estate Index Series includes only real estate securities that are traded in one of the listed countries see Appendix 1. The security must be listed on an official stock exchange. For a list of eligible markets and sources of trading please refer to the FTSE Global Equity Index Series Ground Rules.²

4.2 Securities which are subject to surveillance by the stock exchanges and have been assigned to any of the following segments will not be eligible for index inclusion. Where an existing constituent is assigned to an ineligible segment it will normally be deleted from the index at the next quarterly review and it will only be reconsidered for index inclusion after a period of 12 months from its deletion subject to it no longer being under surveillance. For the purposes of the index eligibility it will be treated as a new issue.

<table>
<thead>
<tr>
<th>Country</th>
<th>Exchange</th>
<th>Segment</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Shanghai Stock Exchange</td>
<td>Special Treatment (ST)</td>
</tr>
<tr>
<td></td>
<td>Shenzhen Stock Exchange</td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>Bombay Stock Exchange</td>
<td>Graded Surveillance Measure (GSM)</td>
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<tr>
<td></td>
<td>National Stock Exchange of India</td>
<td></td>
</tr>
<tr>
<td>Malaysia</td>
<td>Bursa Malaysia</td>
<td>PN17</td>
</tr>
<tr>
<td>Poland</td>
<td>Warsaw Stock Exchange</td>
<td>Alert List</td>
</tr>
<tr>
<td>Singapore</td>
<td>Singapore Exchange</td>
<td>Watch-list</td>
</tr>
<tr>
<td>South Korea</td>
<td>Korea Exchange</td>
<td>Administrative Issues</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Stock Exchange</td>
<td>Altered Trading Method (ATM)</td>
</tr>
<tr>
<td>Thailand</td>
<td>Stock Exchange of Thailand</td>
<td>Companies facing possible delisting according to No. 9(6) of SET’s Regulations on Delisting of Securities</td>
</tr>
<tr>
<td>Turkey</td>
<td>Borsa Istanbul</td>
<td>Watchlist</td>
</tr>
</tbody>
</table>

² Note: In addition to the eligible markets listed in the FTSE Global Equity Index Series Ground Rules, securities trading on the Real Estate Investment Trust (REIT) segment of the Tokyo Stock Exchange are eligible for inclusion in the FTSE EPRA Nareit Global Real Estate Index Series.
Securities that are assigned to the above segments after the review announcement date but before the index review effective date are assessed on a case-by-case basis which may generally result in scheduled index review additions, investability weight and shares in issue changes no longer being implemented at the forthcoming review.

4.3   A. The Initial Universe of companies consists of companies with the following ICB Classifications: Supersector 8600 (Real Estate), Subsector 2357 (Heavy Construction) and Subsector 3728 (Home Construction).

B. The Initial Universe may be expanded by FTSE Russell with other ICB classified companies with guidance from EPRA, Nareit and the Regional Advisory Committee.

C. Limited Liability Partnerships (LLP), Limited Partnerships (LP), Master Limited Partnerships (MLP), Publically Traded Partnerships (PTP), Limited Liability Companies (LLC) and Business Development Companies (BDC) according to official company filings will not be eligible for inclusion.

D. Preference shares are ineligible for index inclusion. Also ineligible are Swedish class ‘D’ shares, which have the same characteristics as preference shares for the purposes of this index.

4.4 Relevant real estate activities are defined as the ownership, trading and development of income-producing real estate.

4.5 Real estate companies must have derived, in the previous full financial year, at least 75 percent of their total EBITDA from relevant real estate activities.

4.6 The construction of residential homes for sale is considered relevant real estate in the Asia Region and Emerging Markets only.

4.7 The following are not considered relevant real estate activities:

A. The financing of real estate.

B. The provision of construction management, general contracting and project management services.

C. The provision of property management, facilities management, insurance, power supply, brokerage, investment management funds and services. See Appendix 7 for more information.

D. Holding companies are excluded from the index. Holding companies are defined as companies that have more than 50 percent of their net assets invested in the securities of other listed companies.

E. Storage caverns/units for commodities such as oil & gas.

F. Companies for which the ownership of real property is incidental to the primary revenue generating activities, including those companies in the gaming, theme park and other entertainment businesses.

G. Infrastructure assets, including transportation assets (roads, bridges, tunnels, airports, etc.), energy and utilities assets (power generation, fuels, etc.), water and waste management assets and communication assets (line-based networks, air-based networks, etc.) and prisons.

H. Timberland and farmland.

I. Outdoor advertising.
J. Data center revenues labelled colocation will be considered real estate revenues for the purpose of the EBITDA screen only if the information is provided in sufficient detail to ensure that revenues from ineligible activities are not included.

K. Revenue from parking lots and parking services are not considered relevant real estate activities unless such revenues are incidental to real estate activities otherwise considered relevant.

4.8 The constituents of the FTSE EPRA Nareit Global Real Estate Index Series are required to meet all of the following criteria where applicable:

A. A company may only be added to the FTSE EPRA Nareit Global Real Estate Index Series if it publishes a publicly available audited annual report in English*. This is defined as a current set of accounts in English consisting of a profit and loss statement, a balance sheet, directors’ review and full notes to the accounts.

* Audited fiscal reports in Japan in English are also eligible. Reporting requirements in the United States are such that official announcements or filings may be used in addition to annual reports for US companies only, in exceptional circumstances.

B. If a company newly introduces English annual reporting it becomes eligible for the indexes at the next quarterly review, providing it meets all other index inclusion criteria.

C. Existing index constituents are required to produce an eligible annual report, as defined by Rule 4.8A, within 12 months after its fiscal year end. Companies that fail to do this will become ineligible at the next quarterly review.

D. If a company meets the EBITDA criteria based on its latest annual report (Rule 4.8A), it becomes eligible for the indexes at the next quarterly review, providing it meets all other index inclusion criteria.

E. If a company fails the EBITDA criteria (see Rule 4.5), it becomes ineligible for the indexes at the next quarterly review.

F. In circumstances where annual reports are published within 20 business day of the review cut-off date, consideration for index inclusion may be deferred until the subsequent review to allow sufficient time for the full analysis of the information provided.

G. A prospective constituent that derives more than 25% of its total annual EBITDA from Frontier or standalone markets (as classified by FTSE Russell) will not be eligible for inclusion in the FTSE EPRA Nareit Global Real Estate Index Series.

See Appendix 8 for the Eligibility Criteria of Speciality Indexes.

4.9 Assignment of Nationality

4.9.1 The procedures for assigning nationalities to prospective constituents of the FTSE EPRA Nareit Global Real Estate Index Series will generally follow the procedures set out in the FTSE Determining Nationality document which is available on the FTSE Russell website and can be accessed using the following link:

Determining_Nationality.pdf

4.9.2 A prospective constituent, which would otherwise have been assigned a nationality of a Developed market, that has over each of the previous two years derived less than 75% of its total annual EBITDA from Developed markets (as classified by FTSE Russell) will instead be assigned the nationality of the Emerging market (as classified by FTSE Russell) from which it has derived the greatest percentage of its EBITDA over those two years. Prospective constituents that have only one year of audited financial statements in their latest annual report...
(as defined by Rule 4.8A) or English IPO prospectus will be reviewed and classified based on the most recent available one year audited financial statements.

4.9.3 An existing constituent which has previously been assigned a nationality of a Developed market that has over each of the previous two years derived less than 50% of its total annual EBITDA from Developed markets (as classified by FTSE Russell) will be assigned the nationality of the Emerging market from which it has derived the greatest percentage of its EBITDA over those two years.

4.9.4 A constituent whose nationality was determined by the application of Rules 4.9.2 or 4.9.3 above may have its nationality changed to that of a different Emerging market if for two consecutive years the greatest percentage of its EBITDA is derived from that Emerging market.

4.9.5 A constituent whose nationality was determined by the application of Rules 4.9.2 or 4.9.3 above may have its nationality changed to that assigned in the FTSE Global Equity Index Series if for two consecutive years the company derives more than 75% of its EBITDA from Developed markets.

4.9.6 In cases where an existing constituent undergoes a significant corporate event, the nationality of that company may be assessed based on the most recent one year audited financial statements in the latest annual report or restructuring prospectus.
Section 5

Qualification Criteria & Periodic Review of Constituents

5.0 Qualification Criteria & Periodic Review of Constituents

5.1 Review Dates

5.1.1 The FTSE EPRA Nareit Global Real Estate Index Series is reviewed on a quarterly basis in March, June, September and December. The review is based on data as at the close of business of the Monday 4 weeks prior to the review effective date. The results of the periodic review will be shown to the FTSE EPRA Nareit Global Real Estate Index Series Regional Advisory Committees at their quarterly meeting.

5.1.2 Any constituent changes resulting from the periodic review will be implemented at the close of business on the third Friday (i.e. effective Monday) of March, June, September and December. Subsequent adjustments in stock weightings (including free float) will become effective at the same time.

5.1.3 FTSE is responsible for publishing the outcome of the periodic review.

5.2 Review Process

5.2.1 The rules for inserting and deleting securities at the quarterly reviews are designed to provide stability in the selection of constituents of the FTSE EPRA Nareit Global Real Estate Index Series while ensuring that the indexes continue to be representative of listed real estate markets by including or excluding those securities which have risen or fallen significantly in value or those companies whose eligible real estate activities have appreciably grown or diminished.

5.2.2 All companies that satisfy Rules 4.1 to 4.10 are eligible for inclusion in the FTSE EPRA Nareit Global Real Estate Index Series subject to the three screens detailed below.

5.3 Size Rule

5.3.1 The size rule of the FTSE EPRA Nareit Global Real Estate Index Series is a relative measure that is expressed as a percentage of the regional index market capitalisation (after the application of investability weightings). Securities that currently are not members of the Index Series are required to meet a basis points threshold for inclusion that is higher than the basis points threshold set for exclusion of existing constituents. The aim of these different size thresholds is to provide a degree of stability in the composition of constituents of the FTSE EPRA Nareit Global Real Estate Index Series while ensuring that the Index continues to be representative of the market by including or excluding those securities whose market
capitalisation has grown or diminished significantly. The size thresholds are expressed in basis points and are highlighted below.

5.4 Additions to the Index Series

At the quarterly review, non-constituent securities that have an investable market capitalisation (after the application of investability weightings) equal to or greater than the following basis points of their respective regional index will be eligible for index inclusion:

**Developed Markets**
- a) Asian Stocks 0.30%
- b) EMEA Stocks 0.10%
- c) Americas Stocks 0.10%

**Emerging Markets**
- a) Asian Stocks 0.20%
- b) EMEA Stocks 0.30%
- c) Americas Stocks 0.30%

**AIM Market**
- a) AIM Stocks 1.50%

Prospective additions must also have at least 50% of their total assets invested in real estate at the time of entering the index.

If a security being considered for addition to the FTSE EPRA Nareit Global Real Estate Index Series at the quarterly reviews in March, June, September or December failed the liquidity test at the previous semi annual review it shall be ineligible for addition until the next semi annual review.

5.5 Deletions from the Index Series

At the quarterly review, an existing constituent of the FTSE EPRA Nareit Global Real Estate Index Series is deleted from the Index Series if it has an investable market capitalisation (after the application of investability weightings) of less than the following basis points in their respective region:

**Developed Markets**
- a) Asian Stocks 0.15%
- b) EMEA Stocks 0.05%
- c) Americas Stocks 0.05%

**Emerging Markets**
- a) Asian Stocks 0.10%
- b) EMEA Stocks 0.15%
- c) Americas Stocks 0.15%

**AIM Market**
- a) AIM Stocks 0.75%

5.6 Liquidity

Each security will be tested for liquidity semi-annually in March and September

- **March Review:** liquidity will be tested from the first business day of January to the last business day of December of the previous year.

- **September Review:** liquidity will be tested from the first business day of July of the previous year to the last business day of June of the current year.
Each security will be tested for liquidity by calculation of its median daily trading per month. Security volume data will be taken on trading days from Sunday to Friday (where applicable) when markets are open.

When calculating the median of daily trades per month a minimum of 5 trading days in each month must exist, otherwise the month will be ignored and not used in the count. The liquidity test will be applied on a pro-rata basis where the testing period is less than 12 months.

For each month, the daily trading volume for each security is calculated as a percentage of the shares in issue for that day adjusted by the free float at the last trading day in the testing period. These daily values are then ranked in descending order and the median is taken by selecting the middle ranking day if there is an odd number of days and the mean of the middle two if there is an even number of days.

Daily totals with zero trades are included in the ranking; therefore a security that fails to trade for more than half of the days in a month will have a zero median trading volume for that month.

Any period of suspension will not be included in the test.

Only exchange trading days will be included in the calculation i.e. exchange holidays will be excluded.

A. New issues which do not have a twelve month trading record must have a minimum 20 day trading record when reviewed. Non-constituent securities which do not turnover at least 0.05% of their shares in issue (after the application of any investability weightings) based on their median daily trading volume per month in ten of the twelve months prior to a full market review, will not be eligible for inclusion in the Index Series.

B. An existing constituent must turnover at least 0.04% of its shares in issue (after the application of any free float weightings) based on its median daily trading volume per month for at least eight of the twelve months prior to a full market review. Where an existing constituent fails this test, it will be subject to a further test whereby the last 6 months of the testing period will be assessed on a pro-rata basis. If the constituent passes at least 4 out of the last 6 months (equating to 8 out of 12 months on a pro-rata basis), it will be considered to have passed the liquidity test. Existing constituents which fail both tests will be removed.

C. New issues which do not qualify as entrants as defined in Rule 6.3.1 will become eligible for inclusion at the next quarterly review providing they trade a minimum of 20 days. They must turnover at least 0.05% of their shares in issue (after the application of any investability weightings) based on their median daily trading volume each month, on a pro-rata basis since listing. For those new issues which do not have at least 50% of total assets invested in real estate, liquidity will be tested from the time the company meets this eligibility criterion. The company should meet these criteria at the time of the review.

See Appendix 8 for Liquidity rules for the FTSE EPRA Nareit AIM Index.

5.7 Free Float

5.7.1 The FTSE EPRA Nareit Global Real Estate Index Series are adjusted for free float and foreign ownership limits.

A. Initial Weighting

Free float is calculated using available published information rounded to 12 decimal places. Companies with a free float of 5% or below are excluded from the index.
Details on free float restrictions can be accessed using the following link:
Free_Float_Restrictions.pdf

B. **Foreign Ownership Restrictions**

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

Further details of the Foreign Ownership Restrictions can be accessed using the following link:
Foreign Ownership Restrictions and Minimum Foreign Headroom Requirement.pdf

C. **Minimum Foreign Headroom Requirement**

FTSE Russell defines “foreign headroom” as the percentage of shares available to foreign investors as a proportion of the company’s Foreign Ownership Limit (FOL), i.e. (FOL – foreign holdings)/FOL.

For example, if a company has a foreign ownership limit, of 49%, of which 39% is held by foreign investors, the foreign headroom is calculated as 20.41% i.e. (49% - 39%)/49%.

Further details of the Minimum Foreign Headroom Requirement can be accessed using the following link:
Foreign Ownership Restrictions and Minimum_Foreign_Headroom_Requirement.pdf

5.8 **Minimum Voting Rights**

5.8.1 Companies assigned a developed market nationality are required to have greater than 5% of the company’s voting rights (aggregated across all of its equity securities, including, where identifiable, those that are not listed or trading) in the hands of unrestricted shareholders or they will be deemed ineligible for index inclusion. Emerging market securities are not subject to this requirement.

5.8.2 Existing constituents with a developed market nationality who do not currently meet the above requirement have a 5 year grandfathering period to comply. If subsequently they continue to fail the minimum voting rights requirement they will be removed from FTSE Russell indexes at the September 2022 review.

5.8.3 The percentage of a company’s voting rights in public hands is calculated as:

\[
\text{The number of votes in the hands of shareholders that are unrestricted as determined by the application of FTSE Russell free float definitions} \\
\text{The total number of votes conferred by the shares outstanding of all the company’s voting securities including those that have not been admitted to trading on a regulated venue}
\]

**For example,** Company A has 100m listed Class A shares each conferring one vote, free float is 65%. It also has 300m unlisted Class B shares each conferring 10 votes.

The test to assess whether the listed Class A line has the required greater than 5% of the company’s voting rights is as follows:

\[
\frac{65m \text{ (i.e. 100m Class A voting rights × 65% float)}}{3.1bn \text{ (i.e. 100m Class A + 3bn Class B)}}
\]

= 2.097% of the company’s voting rights in public hands
5.9 **Trading Screen**

5.9.1 Existing and non-constituent securities which have not traded on 60 or more trading days during the past year (up to and including the review cut-off date), will not be eligible for (continued) index inclusion. Regular/ad-hoc market holidays, and unscheduled market closures will not count towards the total; otherwise, the reason(s) for a security’s non-trading will not be considered. If a security does not have a full year of trading, the 60 day period will be pro-rated according to the number of available trading days passed since its listing. Please note:

- All standard trading days will be incorporated within the calculation (Friday and Sundays as appropriate)
- Ad-hoc non-standard trading days will not be incorporated within the calculation (e.g. ad-hoc Saturday trading will not be considered)
- Where a pro-rata calculation is necessary, the number of available trading days on the underlying market during the previous year up to and including the review cut-off date will be used as the basis of the calculation. E.g. Market ABC has 253 available trading days for the annual period to the review cut-off date; therefore the security would not be eligible if for 23.7% (60/253) or more of its available trading days since listing, it did not trade.
- A security which has been removed from an index as a result of this screen will only be re-considered for inclusion after a period of 12 months from its deletion. For the purposes of index eligibility it will be treated as a new issue.
Section 6

Changes to Constituent Companies

6.0 Changes to Constituent Companies

6.1 Impact of Changes to Constituents

6.1.1 The composition of the universe on which the FTSE EPRA Nareit Global Real Estate Index Series is based may change as a result of decisions or events which affect one or more of the constituent securities.

6.2 Fast Entry Level

6.2.1 A new issue that has an investable market capitalisation (after the application of any investability weightings) equal to or greater than the following basis points for its respective region will be included in the FTSE EPRA Nareit Global Real Estate Index Series after the close of business on the fifth day of trading. Eligibility will be determined using the closing price on the first day of trading. In the event of the fifth day of trading being in close proximity to an index review, FTSE Russell may use its discretion to include a fast entrant at the index review date following advance notice.

The Fast Entry level for each region will be set at the time of the quarterly review in March, June, September and December. The regional Fast Entry level is based on data as at the close of business of the Monday four weeks prior to the review effective date and will be published by FTSE Russell. Please note where these dates are non-trading days or fall on a Saturday or Sunday then the previous trading day’s data will be used.

Developed Markets

a) Asian Stocks 0.40%
b) EMEA Stocks 0.20%
c) Americas Stocks 0.15%

Emerging Markets

a) Asian Stocks 0.40%
b) EMEA Stocks 0.60%
c) Americas Stocks 0.60%

There will be no fast entry rule for the FTSE EPRA Nareit AIM Index.
6.3 **Additions Outside of a Review**

6.3.1 Where a company, whether an existing index 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 EPRA Nareit Global Real Estate Index Series if it meets the following conditions:

- The issuing company has at least 50% of its total assets invested in real estate and meets the additional company eligibility criteria in Section 4; and
- The newly issued security meets the security eligibility criteria in Section 4 and has an investable market capitalisation that exceeds the fast entry level for the relevant region (see Rule 6.2.1).

Note: only shares offered at the time of the IPO will be included within the investable market capitalisation calculation for the purposes of evaluating fast entry eligibility, and if eligible, the offering shares only will be included within the index calculation.

Where a company issues more than one line of equity, each equity security will be tested for eligibility individually. Eligible securities will be added to the index after the close of business on the fifth day of trading. In the event of the fifth day of trading being in close proximity to an index review, FTSE Russell may use its discretion to include a fast entrant on the index review date following advance notice.

6.3.2 In the case of a security which does not qualify as an immediate fast entrant to the index, it will be re-considered for inclusion at the next review, subject to meeting a minimum 20 trading day rule (see Rule 5.6.1C).

6.3.3 In the case of a demutualisation where upon listing the entire free float of a newly eligible security is immediately transferred to private shareholders the addition of the security will be deferred for one month after trading has commenced - provided that adequate liquidity (as defined under Rule 5.6) is demonstrated at this time.

6.3.4 In the case of a constituent company that is split and forms two or more companies by issuing new equity to existing shareholders, then the resulting companies will be eligible to continue as constituents in the same benchmarks within the FTSE EPRA Nareit Global Real Estate Index Series as their predecessor company if they continue to satisfy Rules 5.3 to 5.7.

6.3.5 Newly eligible securities, for example a non-constituent moving to an eligible market, will be reviewed for inclusion at the next quarterly review.

6.4 In the event that a company is reclassified by ICB into an eligible Subsector due to a corporate restructuring or a review of ICB’s classification structure, the company will be considered for inclusion at the next quarterly review provided that a) adequate liquidity (as defined under Rule 5.6.2) is demonstrated at this time, b) official documents regarding the restructuring/conversion have been filed within the respective jurisdictions and c) the company has publicly provided sufficient levels of financial data to establish its level of ‘Relevant Real Estate Activities’.

6.5 Variable and best effort IPOs* will not be considered for fast entry inclusion since FTSE Russell would be:

- unable to confirm if the minimum free float requirement has been met; and
- unable to assign an accurate free float for the purposes of the index calculation.

Direct listing IPOs will be eligible for consideration for fast entry inclusion if there is confirmation, before the close of trading on the first day of listing, of the number of shares that have been made available (e.g. specific holders have publicly disclosed a commitment to sell a number of shares). If there is no disclosure before the close of trading on the first day of listing, the company will not be considered as a potential fast entry addition.
6.5.1 Variable and best effort IPOs and those direct listing IPOs (which do not qualify as a fast entrant) will be considered for index inclusion at the next review if, by the review cut-off date, a public disclosure* is available confirming either the actual number of shares sold during the offering or the post IPO shareholder structure. Index inclusion remains subject to meeting all other eligibility criteria. If the number of shares sold during the IPO, or the post IPO shareholder structure, remains unknown on the review cut-off date, the evaluation of the company will be deferred to a subsequent review.

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

6.6 **Deletions**

6.6.1 A stock will be deleted from the list of constituents when:

- The constituent is delisted from its stock exchange, enters bankruptcy, becomes insolvent or is liquidated.

6.6.2 Deletion on the effective date

If an existing constituent is acquired for cash or ineligible paper or by a non-quoted company in its own or another country, then the existing constituent is deleted on the effective date of the acquisition.

6.6.3 Deletion after confirmation

A company deleted following a takeover, with a remaining free float of 15% or less, will not be reconsidered for index inclusion until completion of a one year trading record.
Section 7

Corporate Actions and Events

7.0 Corporate Actions and Events

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

Corporate_Actions_and_Events_Guide.pdf

Details of the treatment of corporate actions and events in the FTSE EPRA Nareit Global Real Estate Index Series can be accessed using the following link:


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

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

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

7.2 Shares in Issue

7.2.1 Changes to the number of shares in issue for constituent securities are covered in the Corporate Actions and Events Guide.

7.3 Investability Weightings

7.3.1 Changes to free float for constituent securities are covered in the Corporate Actions and Events Guide.

7.4 Spin-offs

If a constituent company is split and forms two or more companies by issuing new equity to existing shareholders, then the resulting companies may be eligible to continue as constituents in the same indexes within the FTSE EPRA Nareit Global Real Estate Index Series as their
predecessor company. Where eligible to continue as a constituent, the spin-off entity (entities) will remain in the same indexes as the parent company until the next quarterly review, where subject to there being a minimum 20 trading day record, it will be tested for size (Rule 5.3), liquidity (Rule 5.6) and EBITDA (Rule 4.5) to assess continuing index eligibility.

For further details please refer to the Corporate Actions and Events Guide.

7.5 **Mergers and Take-overs**

7.5.1 The treatment of takeovers, mergers and demergers can be found within the Corporate Actions and Events Guide.

7.5.2 See Appendix 8 for Changes to Constituents of Speciality Indexes.

7.6 **Suspension of Dealing**

Suspension of dealing rules can be found within the Corporate Actions and Events Guide.
Section 8

Algorithms and Calculation Methods

8.0  Algorithms and Calculation Methods

8.1  Prices

8.1.1  The FTSE EPRA Nareit Global Real Estate Index Series uses actual closing mid-market or last trade prices, where available, for securities with local bourse quotations.

8.1.2  Thomson Reuters’ real time exchange rates are used in the index calculations which are disseminated in real-time. Exchange rates used in the End-of-Day calculations are WM/Reuters Closing Spot Rates™ at 16:00 UK time (see Appendix 4). Exchange rates used in the End-of-Day calculations of the FTSE EPRA Nareit Developed Asia 33 Index are WM/Reuters Spot Rates™, collected at 09:00 UK time (see Appendix 4).

8.2  Calculation Frequency

8.2.1  Please see Appendix 5 for the calculation schedule for the FTSE EPRA Nareit Global Real Estate Index Series.

8.3  Algorithm

8.3.1  The FTSE EPRA Nareit Global Real Estate Index Series is calculated using the chained Paasche methodology.

8.3.2  The performance of the FTSE EPRA Nareit Global Real Estate Index Series on a given day is determined by calculating the percentage difference between:

- the index’s market capitalisation as at the close of that day and
- the market capitalisation at the start of that day

“Start of the day” is defined as the previous day’s close adjusted for capital changes, investability weight changes, additions and deletions.

8.3.3  Adjustments are applied whenever capital changes take place, so that the performance of the FTSE EPRA Nareit Global Real Estate Index Series reflects the experience of investors.
Appendix 1: Classification of Eligible Markets

Classification of Eligible Markets

In principle, companies are allocated to the country in which the company is incorporated and listed at the time of the company’s listing.

FTSE EPRA Nareit Global Real Estate Index Series

<table>
<thead>
<tr>
<th>Region</th>
<th>Country</th>
<th>Developed</th>
<th>Emerging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Americas</td>
<td>Brazil</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Canada</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chile</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Colombia</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mexico</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peru</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>United States</td>
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</table>

<table>
<thead>
<tr>
<th>Region</th>
<th>Country</th>
<th>Developed</th>
<th>Emerging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia Pacific</td>
<td>Australia</td>
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</tr>
<tr>
<td></td>
<td>China(^3)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hong Kong</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>India</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indonesia</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Japan</td>
<td>X</td>
<td></td>
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<tr>
<td></td>
<td>Malaysia</td>
<td>X</td>
<td></td>
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<td></td>
<td>New Zealand</td>
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<td></td>
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<td></td>
<td>Pakistan</td>
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<tr>
<td></td>
<td>Singapore</td>
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<td></td>
<td>South Korea*</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Taiwan</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

\(^3\) Effective from the FTSE Global Equity Index Series March 2019 semi-annual review, the different China Share classes will be reviewed as a standalone region.

China A Shares which constitute the FTSE China A Stock Connect All Cap Index and which pass the March 2019 semi-annual index eligibility criteria were added to the FTSE Global Equity Index Series in June 2019, subject to them continuing to be available on the Northbound China Stock Connect Scheme Buy-and-Sell List.
<table>
<thead>
<tr>
<th>Region</th>
<th>Country</th>
<th>Developed</th>
<th>Emerging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thailand</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Europe, Middle East &amp; Africa</td>
<td>Austria</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Belgium/Luxembourg</td>
<td>X</td>
<td></td>
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<tr>
<td></td>
<td>Czech Republic</td>
<td>X</td>
<td></td>
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<tr>
<td></td>
<td>Denmark</td>
<td>X</td>
<td></td>
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<tr>
<td></td>
<td>Egypt</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Finland</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>France</td>
<td>X</td>
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</tr>
<tr>
<td></td>
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<td>X</td>
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</tr>
<tr>
<td></td>
<td>Greece</td>
<td>X</td>
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<td>Hungary</td>
<td>X</td>
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<tr>
<td></td>
<td>Ireland</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Israel**</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Italy</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kuwait</td>
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<td>Netherlands</td>
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<td>Portugal</td>
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<td></td>
<td>Qatar</td>
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<td></td>
<td>Russia</td>
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<td></td>
<td>Saudi Arabia</td>
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<td></td>
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<tr>
<td></td>
<td>South Africa</td>
<td>X</td>
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<tr>
<td></td>
<td>Spain</td>
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<td></td>
<td>Sweden</td>
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</tr>
<tr>
<td></td>
<td>Switzerland</td>
<td>X</td>
<td></td>
</tr>
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<td></td>
<td>Turkey</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UAE***</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

* South Korea became eligible for inclusion in Developed indexes from September 2009.
** Israel became eligible for inclusion in Developed indexes from March 2009.
*** UAE became eligible for inclusion in Emerging indexes from September 2010.
Argentina became ineligible for inclusion in the FTSE EPRA Nareit Global Real Estate Index Series in September 2010.
Morocco became ineligible for inclusion in the FTSE EPRA Nareit Global Real Estate Series in June 2015.
Greece moved from Developed to Emerging market status in March 2016.
Qatar moved from Frontier to Emerging market status in September 2016.
Poland moved from Advanced to Emerging market status in September 2018.
Kuwait moved from Unclassified to Emerging market status in September 2018.
Saudi Arabia became eligible for inclusion in Emerging indexes in March 2019.
For a list of eligible markets and sources of trading please refer to the FTSE Global Equity Index Series Ground Rules.  

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4 Note: In addition to the eligible markets listed in the FTSE Global Equity Index Series Ground Rules, securities trading on the Real Estate Investment Trust (REIT) segment of the Tokyo Stock Exchange are eligible for inclusion in the FTSE EPRA Nareit Global Real Estate Index Series.
Appendix 2: Index Breakdown

Index Breakdown
The flagship index for the family is the FTSE EPRA Nareit Global Index\(^1\). Indexes marked with \(^2\) were renamed to include Developed in March 2009.\(^5\)

The regions breakdown as follows:

Global
The FTSE EPRA Nareit Global Real Estate Index Series includes:
- Global Index\(^1\)
- Global ex US Index\(^1\)

Americas
The FTSE EPRA Nareit Americas Series includes:
- Americas\(^*\)
  - North America\(^*\)
    - Canada
    - United States \(^*\)
  - Emerging Americas\(^*\)
    - Brazil
    - Mexico
    - Chile
    - Peru

\(^5\) The flagship index for the family is the FTSE EPRA Nareit Global Index\(^1\). Indexes marked with \(^2\) were renamed to include Developed in March 2009.
Asia

The FTSE EPRA Nareit Asia Series includes:

### Asia Pacific

<table>
<thead>
<tr>
<th>Developed Asia Pacific</th>
<th>Emerging Asia Pacific</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Pakistan</td>
</tr>
<tr>
<td>Hong Kong*</td>
<td>India</td>
</tr>
<tr>
<td>Japan</td>
<td>Indonesia</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Malaysia</td>
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<tr>
<td>Singapore</td>
<td>Philippines</td>
</tr>
<tr>
<td>South Korea</td>
<td>Taiwan</td>
</tr>
<tr>
<td></td>
<td>Thailand</td>
</tr>
</tbody>
</table>

6 China A Shares (available under the Northbound China Stock Connect Scheme) will be assigned Secondary Emerging market status beginning in June 2019. Securities became eligible for inclusion in the FTSE EPRA Nareit Global Real Estate Index Series from June 2019.
EMEA

The FTSE EPRA Nareit EMEA Series includes:

**EMEA**

<table>
<thead>
<tr>
<th>Developed Europe*</th>
<th>Austria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developed Europe ex UK*</td>
<td>Belgium/Luxembourg</td>
</tr>
<tr>
<td>Developed EMEA</td>
<td>Denmark</td>
</tr>
<tr>
<td>Developed Middle East &amp; Africa</td>
<td>Finland</td>
</tr>
<tr>
<td>Eurozone*</td>
<td>France</td>
</tr>
<tr>
<td>Developed Eurozone</td>
<td>Germany</td>
</tr>
<tr>
<td>Emerging Eurozone</td>
<td>Ireland</td>
</tr>
</tbody>
</table>

Emerging Europe, Middle East & Africa *

<table>
<thead>
<tr>
<th>Emerging Europe</th>
<th>Egypt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emerging Middle East &amp; Africa</td>
<td>Hungary</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>Russia</td>
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<td>Greece</td>
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<td>Qatar</td>
<td>UAE</td>
</tr>
<tr>
<td>Turkey</td>
<td></td>
</tr>
</tbody>
</table>

* Saudi Arabia will be assigned Secondary Emerging market status in March 2019. Securities will be eligible for inclusion in the FTSE EPRA Nareit Global Real Estate Index Series from March 2019.
### Other Indexes

<table>
<thead>
<tr>
<th>Developed Europe (UK restricted) ²</th>
<th>Developed Europe Liquid 40 ex UK²</th>
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</thead>
<tbody>
<tr>
<td>Developed Europe Liquid 40 ex UK²</td>
<td>Pure Developed Asia²</td>
</tr>
<tr>
<td>Pure Australia²</td>
<td>Global REIT</td>
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<tr>
<td>Global Non-REIT</td>
<td>Global ex US REIT</td>
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<tr>
<td>Global ex US Non-REIT</td>
<td>Americas REIT</td>
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<tr>
<td>Americas Non-REIT</td>
<td>Asia Pacific REIT</td>
</tr>
<tr>
<td>Asia Pacific Non-REIT</td>
<td>Asia ex Japan REIT³</td>
</tr>
<tr>
<td>EMEA Non-REIT</td>
<td>EMEA REIT</td>
</tr>
<tr>
<td>Europe Non-REIT</td>
<td>Europe REIT</td>
</tr>
<tr>
<td>MEA Non-REIT</td>
<td>MEA REIT</td>
</tr>
<tr>
<td>Developed Non-REIT²</td>
<td>Developed REIT²</td>
</tr>
<tr>
<td>Developed ex Asia Non-REIT²</td>
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<td>Developed ex Europe REIT²</td>
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</tr>
<tr>
<td>Developed Europe Non-REIT²*</td>
<td>Developed Europe REIT²*</td>
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<tr>
<td>Emerging Non-REIT</td>
<td>AIM REITs</td>
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<td>Emerging Asia Pacific Non-REIT</td>
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<td>Emerging EMEA Non-REIT</td>
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<tr>
<td>Emerging Europe Non-REIT</td>
<td>Emerging EMEA REIT</td>
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<td>Emerging Europe REIT</td>
</tr>
<tr>
<td>UK REIT</td>
<td>Emerging MEA REIT</td>
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<tr>
<td>Developed Dividend+²</td>
<td>UK Non-REIT</td>
</tr>
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<td>Developed Asia Dividend+²*</td>
<td>Developed Europe ex UK Dividend+²*</td>
</tr>
<tr>
<td>Developed Asia 33²*</td>
<td>US Dividend+ *</td>
</tr>
</tbody>
</table>

³ Singapore Tax stance
Specialist
The FTSE EPRA Nareit Specialist Series includes:

**Investment Focus**

a) Developed
b) Developed Asia
c) Developed Europe
d) North America
e) Australia
f) Hong Kong
g) Japan
h) UK
i) United States

**Property Sector**

a) Developed
b) Developed Asia
c) Developed Europe
d) Eurozone
e) North America
f) UK
g) United States
h) Emerging (launched in May 2011)

**Super Liquid**

a) Developed Super Liquid
b) Developed Europe Super Liquid
c) Developed Asia Super Liquid
d) US Super Liquid

**Capped Indexes**

To serve investors, capped versions of certain indexes are calculated, with a weighting cap placed on individual constituents at each review:

- FTSE EPRA Nareit Eurozone Capped Index*
- FTSE EPRA Nareit Developed Europe Capped Index*
- FTSE EPRA Nareit Developed Europe ex UK Capped Index*
- FTSE EPRA Nareit Developed Europe Liquid 40 Capped Index*
- FTSE EPRA Nareit Developed Europe ex UK Liquid 40 Capped Index*

Please see Appendix 6 for details of the capping methodology.

The FTSE EPRA Nareit Global Real Estate Indexes which are calculated in real time are marked with an asterisk (*). All other indexes are calculated on an end of day basis.

Times are in UK hours.

During real-time calculations, Thomson Reuters Spot rates are used in calculating Foreign Exchange rates.
Appendix 3: Dividends used in the Total Return Calculation and Dividend Withholding Tax Rates

Dividends, using their ex-dividend dates, are used to calculate the Total Return Indexes in the FTSE EPRA Nareit Global Real Estate Index Series. All dividends are applied as declared.

A series of net of tax Total Return Indexes are also calculated based on the maximum withholding tax rates applicable to dividends received by institutional investors who are not resident in the same country* as the remitting company and who do not benefit from double taxation treaties.

The underlying tax rate information is available from FTSE Russell.

* The FTSE nationality assigned to the company as set out in the FTSE Global Equity Index Series Ground Rules.

Withholding tax rates used in the net-of-tax indexes can be accessed using the following link:

Withholding Tax Service

Please also refer to the FTSE Russell Withholding Tax Guide which can be accessed using the following link:

FTSE_Russell_Withholding_Tax_Guide.pdf
Appendix 4: Foreign Exchange Rates

The foreign exchange rates used in the calculation of the FTSE EPRA Nareit Global Real Estate Index Series are the WM/Reuters Closing Spot Rates™ compiled by The WM Company. The service, which was World in consultation with leading financial market practitioners, sets a daily standard for the foreign exchange rates required for index calculation, investment management and portfolio valuation.

At short intervals before and after 16:00 UK time, representative bid and offer rates against the US dollar for some 112 currencies are selected from a wide range of contributing banks and foreign exchange dealers. Anomalous data are screened out, and the median rate is selected for each currency.

The choice of 16:00 UK time as the reference time for foreign exchange rates captures a large selection of timely quotes from Continental European contributors to the Thomson Reuters system and reflects the peak trading period for the London and New York foreign exchange markets. The rates include contributions on a global basis, making them relevant for valuation purposes in all the world's time zones. In the event that WM/Reuters Closing Spot Rates are not published by the WM Company, the previous day’s rates will be used to calculate the FTSE EPRA Nareit Global Real Estate Index Series.

The FTSE EPRA Nareit Developed Asia 33 Index uses foreign exchange rates received from Thomson Reuters at the closing time of the index (09:00, UK time).

Further information on The WM/Reuters Closing Spot Rates™ service is available from The WM Company, World Markets House, Crewe Toll, Edinburgh, EH4 2PY. Tel: + 44 (0) 131 315 2000.
Appendix 5: Calculation Schedules

A) Normal Schedule

The Index Series are calculated once daily at approximately 21:30 - 22:00 UK time, (GMT) shortly after the close of North American securities markets. Selected indexes within the series are calculated on a real time basis.

The Index Series are calculated every week day; when one or more of the constituent markets are open. However, on January 1st, the indexes may not be disseminated. There is no separate calculation to accommodate the Saturday opening of any market.

<table>
<thead>
<tr>
<th>Index</th>
<th>Open</th>
<th>Close</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Index*</td>
<td>00:00</td>
<td>21:10</td>
</tr>
<tr>
<td>Developed Index**</td>
<td>00:00</td>
<td>21:10</td>
</tr>
<tr>
<td>Emerging Index</td>
<td>00:00</td>
<td>21:10</td>
</tr>
<tr>
<td>Global ex US Index*</td>
<td>00:00</td>
<td>21:10</td>
</tr>
<tr>
<td>Developed ex US Index**</td>
<td>00:00</td>
<td>21:10</td>
</tr>
<tr>
<td>Developed Dividend+ Index**</td>
<td>00:00</td>
<td>21:10</td>
</tr>
<tr>
<td>Developed ex Middle East and Africa Index</td>
<td>00:00</td>
<td>21:10</td>
</tr>
<tr>
<td>Asia Pacific Index*</td>
<td>00:00</td>
<td>10:00</td>
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<tr>
<td>Developed Asia Index**</td>
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<td>09:00</td>
</tr>
<tr>
<td>Developed Asia Dividend+ Index**</td>
<td>00:00</td>
<td>09:00</td>
</tr>
<tr>
<td>Developed Asia 33 Index**</td>
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</tr>
<tr>
<td>Emerging Asia Pacific Index</td>
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<td>10:00</td>
</tr>
<tr>
<td>Australia Index</td>
<td>00:00</td>
<td>07:15</td>
</tr>
<tr>
<td>Hong Kong Index</td>
<td>02:00</td>
<td>08:00</td>
</tr>
<tr>
<td>Japan Index</td>
<td>00:00</td>
<td>06:40</td>
</tr>
<tr>
<td>Americas Index*</td>
<td>13:00</td>
<td>21:10</td>
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<tr>
<td>North America Index</td>
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<tr>
<td>Emerging Americas</td>
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<td>21:10</td>
</tr>
<tr>
<td>US Index</td>
<td>14:30</td>
<td>21:10</td>
</tr>
<tr>
<td>US Dividend+ Index</td>
<td>14:30</td>
<td>21:10</td>
</tr>
</tbody>
</table>
EMEA Index* 07:00 16:30
Developed EMEA** 07:45 16:30
Emerging EMEA 07:00 16:00
Europe Index* 08:00 16:30
Developed Europe Index ** 08:00 16:30
Developed Europe Capped Index** 08:00 16:30
Developed Europe (UK Restricted) Index** 08:00 16:30
Developed Europe REITs Index** 08:00 16:30
Developed Europe Non-REITs Index** 08:00 16:30
Developed Europe ex UK Index** 08:00 16:30
Developed Europe ex UK Capped Index** 08:00 16:30
Developed Europe ex UK Dividend+ Index** 08:00 16:30
Eurozone Index 08:00 16:30
Eurozone Capped Index 08:00 16:30
Emerging Europe Index 08:00 16:00
Middle East and Africa Index** 07:00 15:40
Emerging Middle East and Africa Index 07:00 15:40
UK Index 08:00 16:30

Notes:

1. Times are in UK hours.
2. During real-time calculations, Thomson Reuters Spot rates are used in calculating Foreign Exchange rates.

* Indexes launch in March 2009.

** Indexes are renamed from Global to Developed or have Developed included in the region in March 2009.
Appendix 6: Capping Methodology for the Capped Indexes (see Appendix 2)

Capping is applied to the constituents of an Index by the following methodology:

The constituents in the index are ranked by investible market capitalisation and the weight for each constituent in the Index is determined.

Stage 1

Any companies whose weights are greater than 10% are capped at 10%. The weights of all lower ranking companies are increased correspondingly. The weights of lower ranking companies are then checked and if they exceed 10% they are also capped at 10%. This process is repeated until no constituent weight exceeds 10%.

Stage 2

(a) Capping the largest company at 10%

If more than one company is capped at 10% in Stage 1, then weights of all subsequent companies previously capped at 10% are changed in accordance with the rules detailed below.

For example, if the second largest company is capped at 10% its weight will be reduced to 9% as detailed in Stage 2b below. Thus only one company will have a 10% weight in the index.

(b) Capping the second largest company at 9%

If the weight of the second largest company is greater than 9% the company’s weight is capped at 9% and the weights of the remaining companies are increased correspondingly.

Following this procedure if the total index weight of those companies whose individual weights exceed 5%, is NOT greater than 40% then no further capping is required.

However, if the total index weight of those companies whose individual weights exceed 5%, IS greater than 40% then the procedure moves onto stage 2c.

Please note: Where the 40% threshold is breached we move to stage 2c even if the second largest company has not been capped.

(c) Capping the third largest company at 8%

If the weight of the third largest company is greater than 8% the company’s weight is capped at 8% and the weights of the remaining companies are increased correspondingly.

Following this procedure if the total index weight of those companies whose individual weights exceed 5%, is NOT greater than 40% then no further capping is required.

However, if the total index weight of those companies whose individual weights exceed 5%, IS greater than 40% then the procedure moves onto stage 2d.
Please note: Where the 40% threshold is breached we move to stage 2d even if the third largest company has not been capped.

(d) Capping the fourth largest company at 7%
If the weight of the fourth largest company is greater than 7% the company’s weight is capped at 7% and the weights of the remaining companies are increased correspondingly.
Following this procedure if the total index weight of those companies whose individual weights exceed 5%, is NOT greater than 40% then no further capping is required.
However, if the total index weight of those companies whose individual weights exceed 5%, IS greater than 40% then the procedure moves onto stage 2e.
Please note: Where the 40% threshold is breached we move to stage 2e even if the fourth largest company has not been capped.

(e) Capping the fifth largest company at 6%
If the weight of the fifth largest company is greater than 6% the company’s weight is capped at 6% and the weights of the remaining companies are increased correspondingly.
Following this procedure if the total index weight of those companies whose individual weights exceed 5%, is NOT greater than 40% then no further capping is required.
However, if the total index weight of those companies whose individual weights exceed 5%, IS greater than 40% then the procedure moves onto stage 2f.
Please note: Where the 40% threshold is breached we move to stage 2f even if the fifth largest company has not been capped.

(f) Capping the sixth largest company at 4%
If the weights of the sixth largest company and any lower ranking companies are greater than 4% those companies’ weights are capped at 4% and the weights of lower ranking companies are increased correspondingly.
The process then moves to Stage 3.

Stage 3
Following the application of Stage 2, the weights of each company are checked. If the total index weight of those companies whose individual weights exceed 5% is greater than 40% in aggregate, then further capping is required and Stage 2 is repeated.
Companies are capped 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.
Appendix 7: EBITDA Screening

REESA Approved Financial Statements Model (September 2007)

<table>
<thead>
<tr>
<th>EBITDA Screening</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Property Operations Income and Expense:</strong></td>
</tr>
<tr>
<td>Gross rental revenue</td>
</tr>
<tr>
<td>Interest on finance leases</td>
</tr>
<tr>
<td>Service cost reimbursements from tenants</td>
</tr>
<tr>
<td>Reimbursable service costs</td>
</tr>
<tr>
<td>Property operating expenses</td>
</tr>
<tr>
<td>Ground rent expense</td>
</tr>
<tr>
<td>Share of net property income from unconsolidated affiliates, (Note A)</td>
</tr>
<tr>
<td><strong>Net Property Income (NPI), (Note B)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Other Operating Income and Expense (OOIE):</strong></td>
</tr>
<tr>
<td>Gains/losses on sales of properties World/acquired for sale, (Note C)</td>
</tr>
<tr>
<td>Other operating revenue, including third party fees, (Note D)</td>
</tr>
<tr>
<td>Other operating expenses, (Notes E &amp; F)</td>
</tr>
<tr>
<td>G&amp;A</td>
</tr>
<tr>
<td>Dividend income</td>
</tr>
<tr>
<td>Share of OOIE of unconsolidated affiliates, (Note A)</td>
</tr>
<tr>
<td><strong>Total Other Operating Income and Expense (Note G)</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Income From Operations before Finance Costs and Taxes (EBITDA)**

**Note A** – The model accommodates the possibility that the proportionate method of consolidation may not be available in the future under IFRS. If this is indeed the case, to report a consolidated measurement of the important industry metrics, Net Property Income and Income from Operations, the model statement reports the company’s share of these same metrics generated by unconsolidated affiliates in the appropriate sections of the statement.

If the proportionate share method of consolidation is available, the individual line items will reflect the proportionate share of results of unconsolidated affiliates for those that qualify for the proportionate method of consolidation.

In addition, for significant unconsolidated affiliates that may not be reported under the proportionate share method of consolidation, the model allows the share of these
significant affiliates to be reported in the appropriate sections of the statement, at management’s discretion.

**Note B** – Reporting Net Property Income would be optional.

**Note C** – Where gains/losses on the sales of properties acquired for sale are significant, the statement should report sales proceeds and cost of sales separately on the face of the statement. An example of this type of gain/loss would result from significant merchant building sales.

**Note D** – Examples would include third party management, development and leasing fees.

**Note E** – This would include operating expenses not directly associated with operating properties.

**Note F** – Where General and Administrative, Corporate, Overhead or other operating expenses are not clearly allocated to any of the reporting segments in the annual report, the model considers a proportionate allocation based on the revenue breakdown of the different operating segments.

**Note G** – Any share of Net Operating Income from property funds managed by the company is considered eligible income if appropriate disclosure is provided in terms of nature of the fund, percentage of ownership and operational income breakdown. Profit/loss from property revaluations, fair value adjustments and management fees will be excluded.
Appendix 8: Eligibility, Qualification Criteria, Periodic Review and Changes to Constituent Companies of Specialist Indexes

Eligible Securities for Specialist Indexes
In addition to the regional and country indexes, FTSE Russell has expanded the FTSE EPRA Nareit series to include new and innovative benchmarks. These indexes and their qualification criteria are listed below.

1) FTSE EPRA Nareit Pure Developed Asia and FTSE EPRA Nareit Pure Australia Indexes
   a) The underlying universe is the FTSE EPRA Nareit Global Real Estate Series.
   b) The FTSE EPRA Nareit Pure Developed Asia Index contains Asian companies who have derived, in the previous full financial year, at least 60% of its EBITDA from relevant real estate activities in Asia. The FTSE EPRA Nareit Pure Australia Index contains Australian companies that are included in the FTSE EPRA Nareit Pure Developed Asia Index.

2) FTSE EPRA Nareit Developed Europe Liquid 40 and FTSE EPRA Nareit Developed Europe Liquid 40 ex UK Indexes
   a) The underlying universe for the FTSE EPRA Nareit Developed Europe Liquid 40 Index and the FTSE EPRA Nareit Developed Europe Liquid 40 ex UK Index is the FTSE EPRA Nareit Developed Europe Index. The rules for these two indexes are identical to the standard rules of the FTSE EPRA Nareit Global Real Estate Index Series. Both indexes consist of the 40 stocks with the highest volume traded and/or market capitalisation within the FTSE EPRA Nareit Developed Europe Index.

3) FTSE EPRA Nareit Developed Europe (UK Restricted) Index
   b) The FTSE EPRA Nareit Developed Europe (UK Restricted) Index is derived from the FTSE EPRA Nareit Developed Europe Index. The weight of the UK companies is adjusted, according to the UK’s GDP compared against Europe’s GDP. This ratio is applied to the market capitalisation of the UK companies in the index. The calculation and composition is identical to the FTSE EPRA Nareit Developed Europe Index and, as a result, it has the same constituents. Further details on the ratio can be found in Appendix 8.12d.
4) **FTSE EPRA Nareit Global/Developed/Emerging REIT & Non-REIT Indexes**

The rules for this index series are identical to the standard rules of the FTSE EPRA Nareit Global Real Estate Index Series. FTSE Russell, EPRA and Nareit will make the following selection to determine the stocks that will make up the FTSE EPRA Nareit Global REIT & Non-REIT Index Series after the current review:

a) **FTSE EPRA Nareit Global/Developed/Emerging REIT Index Series:**
   - Recognised REIT legislation must be in operation in the country in which the constituent is domiciled.
   - The FTSE EPRA Nareit Global/Developed/Emerging REIT Index consists of all constituents operating as a REIT in their country of domicile according to their latest published financial accounts or regulatory announcements as verified by the Index Partners (FTSE, EPRA & Nareit).

b) **FTSE EPRA Nareit Global/Developed/Emerging Non-REIT Index series:**
   - Recognised REIT legislation does not exist in the country in which the constituent is domiciled.
   - The FTSE EPRA Nareit Global/Developed/Emerging Non-REIT Index consists of all constituents that do not qualify for REIT status according to their latest published financial accounts or regulatory announcements as verified by the Index Partners (FTSE, EPRA & Nareit) or the constituent makes a formal announcement that it fails to comply with REIT legislation in its country of domicile.

5) **FTSE EPRA Nareit Investment Focus Index Series**

a) An Investment Focus Index Series has been introduced to enhance the existing FTSE EPRA Nareit Global Real Estate Index Series and broaden the market approach to the industry. The idea behind the Investment Focus Index Series is to distinguish the cohorts of listed real estate equities. Each constituent of the FTSE EPRA Nareit Global Real Estate Index Series will be classified as Rental or Non-Rental. The classification by Investment Focus will be based on the sources of a company's EBITDA, as disclosed in the latest published annual financial statements. If sources of EBITDA within published financial statements are not disclosed in sufficient detail as to make a determination, sources of revenue will be used instead to assess Rental or Non-Rental classification. The classification will be determined as follows:

b) A company will be classified as Rental if the EBITDA or revenue from properties is greater than or equal to 70% of the total EBITDA or revenue both years individually of a two year period.

c) A company will be classified as Non-Rental if the EBITDA or revenue from properties is less than 70% of the total EBITDA or revenue both years individually of a two year period.

d) Should a company undergo a significant corporate restructuring, the classification of that company may be assessed using the latest information instead.

e) If two years worth of information on EBITDA or revenue sources is not available, the latest information will be used in its absence.

6) **FTSE EPRA Nareit Developed and Emerging Property Sector Index Series**

a) The underlying universe for the Property Sector Index Series is the FTSE EPRA Nareit Developed Real Estate Index and the FTSE EPRA Nareit Emerging Real Estate Index. The idea
behind the Property Sectors Index Series is to distinguish the cohorts of listed real estate equities by separating the existing constituents into nine distinct Property Sectors based on gross invested book assets. The purpose is to provide investors with a mechanism to manage their exposure to different risk-reward profiles in relation to the different aspects of the real estate business, including office buildings, retail centres, industrial facilities, lodging/resorts, residential buildings and other types of properties.

b) The classification by Property Sector will be based on the gross invested book assets as disclosed in the latest published financial statement. Each constituent of the FTSE EPRA Nareit Developed Real Estate Index and the FTSE EPRA Nareit Emerging Real Estate Index will be classified in one of the Property Sectors listed below:

c) A company is classified in one of the following Property Sectors:

   i) Health Care
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in health care properties.

   ii) Self Storage
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in self storage properties.

   iii) Industrial
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in industrial warehouses and distribution facilities.

   iv) Office
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in offices.

   v) Industrial/Office Mixed
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that are not members of property sectors Industrial (N741) or Office (N742) but have a combined total of 75% or more of their gross invested book assets invested in industrial warehouses, distribution facilities and offices.

   vi) Residential
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in residential home properties. That includes apartment buildings and residential communities.

   vii) Retail
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in retail properties. That includes malls, neighbourhood and community shopping centres and factory outlets.

   viii) Lodging/Resorts
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in lodging & resort properties.

   ix) Data Centers
   Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) where 75% or more of their gross invested book assets are invested in data centers.
x) **Specialty**

Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) which have 75% or more of their gross invested book assets invested in a single property sector not listed in i) to ix) above.

xi) **Diversified**

Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) which own, manage and lease substantial assets across two or more property sectors where none meet the 75% gross invested book assets threshold for any single property sector.

7) **FTSE EPRA Nareit Developed Dividend+ Index Series**

   a) The FTSE EPRA Nareit Developed Dividend+ Index Series is designed to measure the performance of higher yielding stocks within the universe of the FTSE EPRA Nareit Developed Real Estate Index Series.

   b) The FTSE EPRA Nareit Developed Dividend+ Index Series was created to allow investors to capture the long-term effect of higher compounding returns and benefit from the lower correlations to traditional market cap weighted indexes.

8) **FTSE EPRA Nareit Developed Asia 33 Index**

   a) The FTSE EPRA Nareit Developed Asia 33 Index has been designed to represent the performance of the largest and most liquid real estate companies from Australia, Hong Kong, Singapore, New Zealand and Japan.

   b) The FTSE EPRA Nareit Developed Asia 33 Index is a tradable index, covering the top 33 constituents of developed countries in the Asia Pacific region by market capitalisation with a selection process that firstly includes companies listed as REITs. Where the total number of constituents is less than 33 then Non-REITs are added.

9) **FTSE EPRA Nareit Asia ex Japan REITs Index**

   a) The FTSE EPRA Nareit Asia ex Japan REITs Index has been designed to represent the performance of REITs from China, Hong Kong, India, Indonesia, Malaysia, Pakistan, Philippines, Singapore, South Korea, Taiwan and Thailand.

   b) The FTSE EPRA Nareit Asia ex Japan REITs Index is a tradable index covering the constituents of developed and emerging countries in the Asia region by market capitalisation with a selection process that includes only companies listed as REITs.

   c) The FTSE EPRA Nareit Asia ex Japan REITs Index is calculated net of tax using a Singapore tax stance and constituents are capped at 10%.
Qualification Criteria & Periodic Review of Constituents of Specialist Indexes

10) FTSE EPRA Nareit Pure Developed Asia and FTSE EPRA Nareit Pure Australia Indexes

a) The indexes will be reviewed quarterly in March, June, September and December as part of the FTSE EPRA Nareit Global Real Estate Index Series.

b) The quarterly reviews will use data based on the close of business on the Monday 4 weeks prior to the review effective date.

c) The quarterly reviews will be implemented in line with the FTSE EPRA Nareit Global Real Estate Index Series at the close of business on the third Friday (i.e. effective Monday) of March, June, September and December.

11) FTSE EPRA Nareit Developed Europe Liquid 40 and FTSE EPRA Nareit Developed Europe Liquid 40 ex UK Indexes

a) The indexes will be reviewed quarterly in March, June, September and December as part of the FTSE EPRA Nareit Global Real Estate Index Series.

b) The quarterly reviews will use data based on the close of business on the Monday 4 weeks prior to the review effective date.

c) The quarterly reviews will be implemented in line with the FTSE EPRA Nareit Global Real Estate Index Series at the close of business on the third Friday (i.e. effective Monday) of March, June, September and December.

d) At review the universe for both indexes will consist of constituents from the FTSE EPRA Nareit Developed Europe series. The FTSE EPRA Nareit Developed Europe Liquid 40 Index consists of the 40 stocks with the highest turnover and/or market capitalisation within the FTSE EPRA Nareit Developed Europe index. Using the same data, the compiler (FTSE Russell) will make the following selection to determine the 40 stocks that will make up the index after the current review:

i) All companies included in the FTSE EPRA Nareit Developed Europe index as a result of the current review will be ranked according to both trading volume and market capitalisation (after the application of any investability weightings). Trading volume is based on the two quarters preceding the review.

ii) Constituents are selected as the highest ranking in terms of value* traded, followed by the highest ranking in terms of market capitalisation, then the second ranking in terms of value traded, followed by the second ranking in terms of market capitalisation, et cetera until 40 securities are selected.

* Value traded is calculated by taking the daily volume traded multiplied by the daily closing price.

iii) Current index constituents that are not included in the selection under (b) are only deleted from the index if their highest rank (either volume traded or market capitalisation) is more than ten places lower than the last selected constituent.

iv) Companies that are removed from the index are not eligible for inclusion during the following quarterly review. Companies that are newly included in the index may not be deleted from the index during the following quarterly review.

v) The resulting constituents from the review methodology stated above will comprise the FTSE EPRA Nareit Developed Europe Liquid 40 Index. At the time of the review a further screen is applied that excludes all UK listed companies. The remaining constituents will comprise the FTSE EPRA Nareit Developed Europe Liquid 40 ex UK Index.
12) FTSE EPRA Nareit Developed Europe (UK Restricted) Index

a) The index will be reviewed annually in June as part of the quarterly FTSE EPRA Nareit Developed Europe series review.

b) The annual review will use data based on the close of business on the Monday 4 weeks prior to the review effective date.

c) The annual review will be implemented in line with the FTSE EPRA Nareit Developed Europe series at the close of business on the third Friday (i.e. effective Monday) of June.

d) The FTSE EPRA Nareit Developed Europe (UK Restricted) Index is derived from the FTSE EPRA Nareit Developed Europe Index. At annual review the weight of the UK companies is adjusted, according to the ratio of the UK’s GDP divided by Europe’s GDP. This ratio is applied to the full market capitalisation of the UK companies in the index. This capping factor/ratio is supplied annually by EPRA. The GDP figures are published in the annual OECD Main Economic Indicators and published on the internet site http://www.sourceOECD.org. The review process uses the previous calendar year-end GDP figures and previous calendar year-end exchange rates.

13) FTSE EPRA Nareit Global/Developed/Emerging REIT & Non-REIT Indexes

a) The indexes will be reviewed quarterly in March, June, September and December as part of the FTSE EPRA Nareit Global Real Estate Index Series.

b) The quarterly reviews will use data based on the close of business on the Monday 4 weeks prior to the review effective date.

c) The quarterly reviews will be implemented in line with the FTSE EPRA Nareit Global Real Estate Index Series at the close of business on the third Friday (i.e. effective Monday) of March, June, September and December.

d) The FTSE EPRA Nareit Global/Developed/Emerging REIT & Non-REIT Indexes are derived from the FTSE EPRA Nareit Global Real Estate Index Series. Hence, at the quarterly review the series are adjusted to represent the changes implemented to the FTSE EPRA Nareit Global Real Estate Index Series. Furthermore, each constituent is assigned a REIT or Non-REIT status making it a member of either index. FTSE Russell, with the assistance of EPRA and Nareit, screens all stocks and assigns the relevant classification on a quarterly basis (see Appendix 8.4).

14) FTSE EPRA Nareit Investment Focus Index Series

a) The indexes will be reviewed quarterly in March, June, September and December as part of the FTSE EPRA Nareit Global Real Estate Index Series.

b) The quarterly reviews will use data based on the close of business on the Monday 4 weeks prior to the review effective date.

c) The quarterly reviews will be implemented in line with the FTSE EPRA Nareit Global Real Estate Index Series at the close of business on the third Friday (i.e. effective Monday) of March, June, September and December.

d) The FTSE EPRA Nareit Investment Focus Indexes are derived from the FTSE EPRA Nareit Global Real Estate Index Series. Hence, at the quarterly review the series is adjusted to represent the changes made to the FTSE EPRA Nareit Global Real Estate Index Series. Furthermore, each constituent will be classified as Rental or Non-Rental. EPRA screens all stocks and assigns the relevant classification as detailed in Appendix 8.5. A company’s Investment Focus classification will be reviewed on an annual basis according to its latest published annual accounts and implemented at the next quarterly review.
15) FTSE EPRA Nareit Global Sectors Index Series
   a) The indexes will be reviewed quarterly in March, June, September and December as part of the
      FTSE EPRA Nareit Global Real Estate Index Series.
   b) The quarterly reviews will use data based on the close of business on the Monday 4 weeks prior
      to the review effective date.
   c) The quarterly reviews will be implemented in line with the FTSE EPRA Nareit Global Real Estate
      Index Series at the close of business on the third Friday (i.e. effective Monday) of March, June,
      September and December.
   d) The FTSE EPRA Nareit Global Sector Indexes are derived from the FTSE EPRA Nareit Global
      Real Estate Index Series. Hence, at the quarterly review the series are adjusted to represent the
      changes made to the FTSE EPRA Nareit Global Real Estate Index Series. A company’s
      Property Sector classification will be reviewed on an annual basis according to its latest
      published annual accounts and implemented at the next quarterly review. FTSE Russell, with
      the assistance of EPRA and Nareit, screens all stocks and assigns the relevant classification as
      detailed in Appendix 8.6.

16) FTSE EPRA Nareit Developed Dividend+ Index Series
   a) The indexes will be reviewed on an annual basis in September in line with the quarterly review
      of the FTSE EPRA Nareit Global Real Estate Index Series.
   b) The annual reviews will use data based on the close of business on the Wednesday before the
      first Friday of September, taking into account constituent changes in the September quarterly
      review of the FTSE EPRA Nareit Global Real Estate Index Series.
   c) The annual review will be implemented in September after the close of trading on the third
      Friday (i.e. effective Monday), in line with the FTSE EPRA Nareit Global Real Estate Index
      Series.
   d) At the time of each review, constituents of the FTSE EPRA Nareit Global Real Estate Index
      Series that have available a forecast/estimate one-year dividend yield (see Appendix 8.16.f) of
      two percent or greater are eligible for inclusion into the FTSE EPRA Nareit Dividend+ Index
      Series. If a forecast/estimate one-year dividend yield is not available, FTSE Russell’s historical
      dividend yield data are used.
   e) The FTSE EPRA Nareit Dividend+ Indexes will not have a fixed number of constituents.
   f) Forecast/estimate one year dividend yield data are sourced from Thomson Reuters I/B/E/S. For
      the review, universe constituents that do not have available this information, FTSE Russell’s
      historical dividend yield data are used. Dividend yields are calculated by dividing the one-year
      dividends per share forecast/estimates by the underlying FTSE Russell stock price at the review
      data cut-off date. Thomson Reuters I/B/E/S data will be taken from the close of business on the
      third Thursday of August.

17) FTSE EPRA Nareit Developed Asia 33 Index
   a) The FTSE EPRA Nareit Developed Asia 33 Index will be reviewed semi-annually in June and
      December.
   b) The Index constituents will be compiled using data after the close of business on the Monday 4
      weeks prior to the review effective date, taking into account any changes that would be
      implemented at the semi annual review.
   c) The index review would be implemented in line with the FTSE EPRA Nareit Global Index Series,
      i.e. after the close of business on the third Friday (i.e. effective Monday) of June and December.
d) At review the eligible stocks are ranked by their investable market capitalisation (after free float). Any company with REIT status which has an investable market capitalisation of greater or equal to 0.40% of the FTSE EPRA Nareit Developed Asia Index will be included into the index until 33 constituents have been selected. If no more REITs satisfy the size rule Non-REITs are ranked by investable market capitalisation and the next highest company is added until 33 constituents are selected.

e) To provide stability and reduce turnover and costs at review a buffer of 5 stocks either side of the 33 cut-off is implemented.

   I. A company will be inserted at the periodic review if it rises above the 28th position, when eligible companies are ranked by investable market capitalisation.

   II. A company will be deleted at the periodic review if it falls below the 38th position, when eligible companies are ranked by investable market capitalisation.

f) At review a constant number of constituents will be maintained. Where a greater number of companies qualify to be inserted in the 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 semi annual 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 semi annual review.

g) The index will be capped at review, with no stock having a weight greater than 10 per cent of the index and no country greater than 40% of the index. The capping will be calculated using the second Friday’s closing prices adjusted for corporate actions, with the constituent shares and investability weightings from the start of trading on the review implementation date (i.e. the next working day following the third Friday).

18) FTSE EPRA Nareit Asia ex Japan REITS Index

   a) The indexes will be reviewed quarterly in March, June, September and December as part of the FTSE EPRA Nareit Global Real Estate Index Series.

   b) The quarterly reviews will use data based on the close of business on the Monday 4 weeks prior to the review effective date.

   c) The quarterly reviews will be implemented in line with the FTSE EPRA Nareit Global Real Estate Index Series at the close of business on the third Friday (i.e. effective Monday) of March, June, September and December.

   d) The index will be capped at review, with no stock having a weight greater than 10 per cent of the index. The capping will be calculated using the second Friday's closing prices adjusted for corporate actions, with the constituent shares and investability weightings from the start of trading on the review implementation date (i.e. the next working day following the third Friday).
Changes to Constituent Companies of Specialist Indexes

19) FTSE EPRA Nareit Pure Developed Asia and FTSE EPRA Nareit Pure Australia Indexes

a) Additions into the index series will be applied at the fifth day of trading of the eligible stock.

b) Intra-review changes will be in-line with the underlying FTSE EPRA Nareit Developed Asia Index Series. A constituent will be removed from the FTSE EPRA Nareit Pure Developed Asia and FTSE EPRA Nareit Pure Australia Indexes if it is also removed from the underlying FTSE EPRA Nareit Developed Asia Index Series.

c) If a constituent is acquired by a non-constituent, the constituent will be removed from the indexes.

20) FTSE EPRA Nareit Developed Europe Liquid 40 and FTSE EPRA Nareit Developed Europe Liquid 40 ex UK Indexes

a) If, due to a corporate action, the number of constituents deviates from 40, the index is only rebalanced at the quarterly review and not at the time of the corporate action. Hence additions into the indexes will only be applied at the quarterly review since the number of constituents is not fixed at 40 intra review.

b) Intra-review changes will be in-line with the underlying FTSE EPRA Nareit Developed Europe Index. A constituent will be removed from the indexes if it is also removed from the underlying FTSE EPRA Nareit Developed Europe Index.

21) FTSE EPRA Nareit Developed Europe (UK Restricted) Index

a) Changes and additions into the index series will be applied in-line with the FTSE EPRA Nareit Europe Index series.

b) A constituent will be removed from the FTSE EPRA Nareit Developed Europe (UK restricted) Index if it is also removed from the underlying FTSE EPRA Nareit Developed Europe Index.

c) If a constituent is acquired by a non-constituent, the constituent will be removed from the FTSE EPRA Nareit Developed Europe (UK restricted) Index.

d) 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 de-merger, the newly spun-off company will remain eligible for inclusion into the index as long as it remains a constituent in the FTSE EPRA Nareit Developed Europe Index. The new spun-off company will retain the same factor as its parent company until the next annual review.

22) FTSE EPRA Nareit REIT & Non-REIT Indexes

I. In the case of an initial public offering, when the REIT status of a constituent is unknown, the constituent will enter the FTSE EPRA Nareit Non-REIT Index unless:

a) The constituent makes a formal announcement that it opts, or complies with, REIT legislation in its country of domicile.

b) Or, the constituent qualifies for REIT status in its latest published set of annual accounts.

II. Intra-review changes will be in line with the underlying FTSE EPRA Nareit Global Real Estate Index Series. A constituent will be removed from the FTSE EPRA Nareit REIT & Non-REIT Indexes if it is also removed from the underlying FTSE EPRA Nareit Index.

III. Classification changes:
a) Changes to the classification of a company will be advised by FTSE Russell and the necessary adjustments will be made at the same time that the constituent changes are implemented.

b) Where a constituent is the subject of a merger, restructure or complex takeover which results in a constituent (or part of a constituent) being absorbed by another constituent, the REIT status of the resulting constituent(s) will be reviewed by FTSE Russell.

c) 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.

23) FTSE EPRA Nareit Investment Focus Index Series

I. Additions into the index series will be applied in-line with the FTSE EPRA Nareit Developed Index.

II. Intra-review changes will be in line with the underlying FTSE EPRA Nareit Global Real Estate Index Series. A constituent will be removed from the FTSE EPRA Nareit Investment Focus Index Series if it is also removed from the underlying FTSE EPRA Nareit Developed Index.

III. Classification changes:

a) Changes to the classification (Rental/Non-Rental) of a company will be advised by FTSE Russell and the necessary adjustments will be made at the same time that the constituent changes are implemented.

b) Where a constituent is the subject of a merger, restructure or complex takeover which results in a constituent (or part of a constituent) being absorbed by another constituent, the Rental/Non-Rental classification of the resulting constituent(s) will be reviewed by FTSE Russell.

c) 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.

24) FTSE EPRA Nareit Global Sector Index Series

a) Additions into the Index Series will be applied in-line with the FTSE EPRA Nareit Developed Index.

b) Intra-review changes will be in line with the underlying FTSE EPRA Nareit Developed Index. A constituent will be removed from the FTSE EPRA Nareit Global Sector Index Series if it is also removed from the underlying FTSE EPRA Nareit Developed Index.

c) Classification changes

I. Changes to the classification of a company will be advised by FTSE Russell and the necessary adjustments will be made at the same time that the constituent changes are implemented.

II. Where a constituent is the subject of a merger, restructure or complex takeover which results in a constituent (or part of a constituent) being absorbed by another constituent, the industry classification of the resulting constituent(s) will be reviewed by FTSE Russell.

III. 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.
25) FTSE EPRA Nareit Developed Dividend+ Index Series
   a) Additions into the index series will only be applied at the annual review in September.
   b) Intra-review deletions will be in line with the underlying FTSE EPRA Nareit Global Index Series. A constituent will be removed from the FTSE EPRA Nareit Developed Dividend+ Index Series if it is also removed from the underlying FTSE EPRA Nareit Developed Index Series.

26) FTSE EPRA Nareit Developed Asia 33 Index
   a) When a constituent is added to the FTSE EPRA Nareit Global Index Series, it will be considered for inclusion at the next semi annual review. However, a fast entry rule has been put in place to capture any substantial IPOs.
   b) A new issue will be included intra review if the company has a REIT status and is equal or greater than the 10th position company in the index, when companies are ranked by investable market capitalisation. The addition of a new security will be implemented after the close of business on the fifth day of trading and the index will need to be re-capped.
   c) If a constituent of the underlying universe is removed, the constituent will be removed from the Index, where applicable. Where a constituent is removed from the index, it will not be replaced until the next periodic review.
   d) If an index constituent has a complex reorganisation or demerger, the newly spun-off company will not be considered for inclusion in the index unless it remains part of the eligible universe and its investable market capitalisation is greater than the smallest index constituent. If it is eligible for inclusion, the index may have more than 33 constituents until the next semi annual review.
   e) Where two index constituents merge or one Index constituent is acquired by another constituent, a vacancy will be created. The vacancy will not be filled and the index will remain with less than 33 constituents until the next semi annual review. If an index constituent acquires or merges with a non-constituent, the new entity will remain in the index. If an existing constituent is acquired by a non-constituent, the newly created non-constituent will be considered for entry only if it meets all the eligibility criteria.

27) FTSE EPRA Nareit AIM Index
   Securities in the FTSE EPRA Nareit AIM Index will be tested for liquidity separate to the rest of the Index Series by calculating its velocity trading per month. The velocity trade is calculated by summing each month’s daily volumes traded adjusted for the effect of corporate events where appropriate and dividing it by the free float adjusted shares in issue on offer on the last day of the month.
   a) To be eligible for inclusion, non-constituent securities must trade at least 0.25% of their shares in issue (after the application of any free float weightings) based on their velocity trade per month for at least ten of the twelve months prior to the annual review in December.
   b) For existing constituents, securities must trade at least 0.25% of its shares in issue (after the application of any free float weightings) based on its velocity trade per month for at least eight of the twelve months prior to the annual review in December.
   c) A security that is excluded because it fails the liquidity requirement will be excluded from the FTSE EPRA Nareit AIM Index until the next periodic review.
28) FTSE EPRA Nareit Super Liquid Index Series
   a) The FTSE EPRA Nareit Super Liquid Index Series will be reviewed annually in March and will consist of the following indexes:
      • FTSE EPRA Nareit Developed Super Liquid Index
      • FTSE EPRA Nareit Developed Europe Super Liquid Index
      • FTSE EPRA Nareit Developed Asia Super Liquid Index
      • FTSE EPRA Nareit US Super Liquid Index
   b) Intra-review changes will be in line with the underlying FTSE EPRA Nareit Index. A constituent will be removed from the FTSE EPRA Nareit Super Liquid Index Series if it is also removed from the underlying FTSE EPRA Nareit Index.
   c) Please refer to the FTSE Super Liquid Index Series Ground Rules for more information.

29) FTSE EPRA Nareit Asia ex Japan REITS Index
   a) Additions into the index series will be applied in-line with the FTSE EPRA Nareit Global Real Estate Index.
   b) Intra-review changes will be in line with the underlying FTSE EPRA Nareit Global Real Estate Index Series.
Appendix 9: Status of Real Time Indexes

The FTSE EPRA Nareit Global Real Estate indexes that are calculated in real time (see Appendix 2) are made available with one of the following designations:

A) Firm
   i) The indexes are active and being calculated during Official Market Hours using prices on the eligible exchanges. No message will be displayed against the index value.
   ii) The Official Closing Prices for the indexes will be based on Exchange Official Closing Prices for each country.

B) Closed
   The indexes have ceased all calculations for the day. The message ‘CLOSE’ will be displayed against the index value calculated by FTSE Russell.

C) Held
   During Official 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.

D) 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.
Appendix 10: Further Information

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

Glossary.pdf

Further information on the FTSE EPRA Nareit Global Real Estate Index Series is available from FTSE Russell on www.ftserussell.com. Contact details can also be found on this website.

EPRA

Further information on the real estate screening criteria and EPRA are available on www.epra.com. Contact details can also be found on this website.