

MSCI Real Estate – BMR Benchmarks Methodology Specifications

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1 Introduction

This document sets out the additional detailed methodology specifications for BMR Benchmarks. (“BMR” refers collectively to the EU benchmark regulation and the UK benchmark regulation post Brexit.)

A “BMR Benchmark” is an MSCI Private Real Estate Index for which MSCI Limited has provided written permission in each instance to its client to be used for a BMR regulated use.

The process to request BMR regulated use for these BMR Benchmarks or other indexes can be found on the index regulation page of MSCI’s website at www.msci.com/index-regulation.

With respect to the BMR, for BMR Benchmarks in the MSCI property benchmark family, MSCI has chosen not to apply certain articles of the BMR as allowed under the BMR. MSCI has published a [MSCI Real Estate – BMR property benchmark family - Compliance Statement](#) which explains the exemptions taken by MSCI.

BMR Benchmarks fall into two families based on the their ‘input data’ as defined by the BMR:

- MSCI property benchmark family.** The input data for this family is property valuations, and in periods when a transaction occurs, the property transacted prices. The data for each of the properties in the relevant BMR Benchmarks is supplied by MSCI’s data providers. Based on MSCI’s current understanding and assumptions, property valuations are “contributions of input data” under the BMR.
No other substitutes are made and no other order of priority of use of input data applies to this family.
- MSCI property fund (with published NAV) benchmark family.** The input data for this family is the Net Asset Value (“NAV”) of each of the funds included in the relevant BMR Benchmark as supplied by its data providers. This input data is published on the MSCI website at each index release. Because the data is publicly available, the data is considered “readily available” and is not “contribution of input data” under the BMR.
There are no substitutes for fund NAVs and therefore no priority of use of input data for this family.

2 Methodology Documentation Set for the MSCI Property Benchmark Family

- [MSCI Real Estate - Index Policies](#)
- [MSCI Property Indexes Methodology](#)
- [MSCI Real Estate – BMR Benchmarks Methodology Specifications](#)
- [MSCI Global Data Standards for Real Estate Investment](#)
- [MSCI Standards for Real Estate Valuations](#)

3 Methodology Documentation Set for the MSCI Property Fund (with published NAV) Benchmark Family

- [MSCI Real Estate - Index Policies](#)
- [MSCI Property Fund Indexes Methodology](#)
- [MSCI/AREF UK Quarterly Property Fund Index Methodology](#)
- [MSCI Real Estate – BMR Benchmarks Methodology Specifications](#)
- [MSCI Global Data Standards for Real Estate Investment](#)

4 MSCI Real Estate - BMR Benchmarks Methodology Specifications

The methodology specifications for construction of benchmarks are provided in the next two sections. All BMR Benchmarks are or are constructed from the MSCI UK Annual Property Index, the MSCI UK Quarterly Property Index or the MSCI/AREF UK Quarterly Property Fund Index. The specifications are described as follows:

	Description
BMR Benchmark Name	This is the official name of the BMR Benchmark
Peer Group Filter	The Standard Index or sub-index, with any exclusions, from which the BMR Benchmark is constructed
Geographic Filter	Geographic Filter which could indicate a country or region within a country
Property Attribute Filter	Property attribute filters encompass a wide variety of asset characteristics that can be used to define index subsets. The most frequently referenced attributes are property sectors and more detailed property types.
Primary Methodologies	The primary methodologies to which these specifications are applied.
History	Frozen or unfrozen. Note, all BMR Benchmarks are required to have frozen history.
Refresh Cycle	Annual or Quarterly
Minimum Valuation Frequency	Annual or Quarterly
Publication Frequency	Annual or Quarterly
Rebalancing Frequency	Annual or Quarterly
Currency	GBP
Measure	Total Return or Net Total Return - unitized adjusted for crossholdings
Sample Filter	All Assets or Standing Investments
Measure Function	Weighted average or Percentile ranking

5 BMR Benchmarks in the MSCI Property Benchmark Family

BMR Benchmark Name	MSCI UK (excluding Central London Office Fund - 631) Central London Office Annual Property Index (Total Return; GBP)
Peer Group Filter	MSCI UK Annual Property Index excluding Central London Office Fund - 631 managed by Nuveen Real Estate Management Limited
Geographic Filter	Central London (based on UK Regions definition in MSCI Property Indexes Methodology)
Property Attribute Filter	Office (based on Sector definition in MSCI Property Indexes Methodology)
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Annual
Minimum Valuation Frequency	Annual
Publication Frequency	Annual
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

BMR Benchmark Name	MSCI UK (excluding UK Retail Warehouse Fund - 605) Retail Warehouse Quarterly Property Index (Total Return; GBP)
Peer Group Filter	MSCI UK Quarterly Property Index excluding UK Retail Warehouse Fund - 605 managed by Nuveen Real Estate Management Limited
Geographic Filter	UK
Property Attribute Filter	Retail Warehouse (based on Detailed Property definition in MSCI Property Indexes Methodology)
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

BMR Benchmark Name	MSCI UK (excluding Shopping Centre Fund - 656) Shopping Centres Annual Property Index (Total Return; GBP)
Peer Group Filter	MSCI UK Annual Property Index excluding Shopping Centre Fund - 656 managed by Nuveen Real Estate Management Limited
Geographic Filter	UK
Property Attribute Filter	Shopping Centre (based on Detailed Property definition in MSCI Property Indexes Methodology)
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Annual
Minimum Valuation Frequency	Annual
Publication Frequency	Annual
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

BMR Benchmark Name	MSCI UK excluding Central and Inner London Office Quarterly Property Index (Total Return; GBP)
Peer Group Filter	MSCI UK Quarterly Property Index
Geographic Filter	Excluding Central and Inner London (based on UK Regions definition in MSCI Property Indexes Methodology)
Property Attribute Filter	Office (based on Sector definition in MSCI Property Indexes Methodology)
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

BMR Benchmark Name	MSCI UK (excluding Industrial Property Investment Fund - 415) Industrial Quarterly Property Index (Total Return GBP)
Peer Group Filter	MSCI UK Quarterly Property Index excluding Industrial Property Investment Fund - 415 managed by Legal and General Investment Management
Geographic Filter	UK
Property Attribute Filter	Industrial (based on Sector definition in MSCI Property Indexes Methodology)
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

BMR Benchmark Name	MSCI UK Shopping Centres: > 700,000 sq ft Annual Property Index (Total Return; GBP)
Peer Group Filter	MSCI UK Annual Property Index
Geographic Filter	UK
Property Attribute Filter	Shopping centres (based on Detailed Property definition in MSCI Property Indexes Methodology) with a floorspace greater than 700,000 sq ft (based on fixed value band)
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

BMR Benchmark Name	MSCI UK Quarterly Property Index (Total Return; GBP)
Peer Group Filter	MSCI UK Quarterly Property Index
Geographic Filter	UK
Property Attribute Filter	All sectors
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

BMR Benchmark Name	MSCI UK Healthcare Annual Property Index (Total Return; GBP)
Peer Group Filter	MSCI UK Annual Property Index
Geographic Filter	UK
Property Attribute Filter	Healthcare (based on Detailed Property definition in MSCI Property Indexes Methodology)
Primary Methodology	MSCI Property Indexes Methodology
History	Frozen
Refresh Cycle	Annual
Minimum Valuation Frequency	Annual
Publication Frequency	Annual
Rebalancing Frequency	-
Currency	GBP
Measure	Total Return
Sample Filter	All Assets
Measure Function	Weighted average

6 BMR Benchmarks in the MSCI Property Fund (with published NAV) Benchmark Family

BMR Benchmark Name	MSCI/AREF UK All Balanced Quarterly Property Fund Index (Net Total Return–unitized adjusted for crossholdings; GBP)
Peer Group Filter	MSCI/AREF All Balanced UK Quarterly Property Fund Index
Geographic Filter	UK
Property Attribute Filter	-
Primary Methodology	MSCI Property Fund Indexes Methodology and MSCI/AREF UK Quarterly Property Fund Index Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Net Total Return - unitized adjusted for crossholdings
Sample Filter	-
Measure Function	Weighted average

BMR Benchmark Name	MSCI/AREF UK Other Balanced Quarterly Property Fund Index (75th Vehicle-level Percentile Net Total Return–unitized adjusted for crossholdings; GBP)
Peer Group Filter	MSCI/AREF Other Balanced UK Quarterly Property Fund Index
Geographic Filter	UK
Property Attribute Filter	-
Primary Methodology	MSCI Property Fund Indexes Methodology and MSCI/AREF UK Quarterly Property Fund Index Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Net Total Return - unitized adjusted for crossholdings
Sample Filter	-
Measure Function	75th Vehicle-Level Percentile

BMR Benchmark Name	MSCI/AREF UK Other Balanced Quarterly Property Fund Index (Net Total Return–unitized adjusted for crossholdings; GBP)
Peer Group Filter	MSCI/AREF Other Balanced UK Quarterly Property Fund Index
Geographic Filter	UK
Property Attribute Filter	-
Primary Methodology	MSCI Property Fund Indexes Methodology and MSCI/AREF UK Quarterly Property Fund Index Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Net Total Return - unitized adjusted for crossholdings
Sample Filter	-
Measure Function	Weighted average

BMR Benchmark Name	MSCI/AREF UK All Balanced Quarterly Property Fund Index (50th Vehicle-level Percentile Net Total Return–unitized adjusted for crossholdings; GBP)
Peer Group Filter	MSCI/AREF All Balanced UK Quarterly Property Fund Index
Geographic Filter	UK
Property Attribute Filter	-
Primary Methodology	MSCI Property Fund Indexes Methodology and MSCI/AREF UK Quarterly Property Fund Index Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Net Total Return - unitized adjusted for crossholdings
Sample Filter	-
Measure Function	50th Vehicle-Level Percentile

BMR Benchmark Name	MSCI/AREF UK All Balanced Quarterly Property Fund Index (75th Vehicle-level Percentile Net Total Return–unitized adjusted for crossholdings; GBP)
Peer Group Filter	MSCI/AREF All Balanced UK Quarterly Property Fund Index
Geographic Filter	UK
Property Attribute Filter	-
Primary Methodology	MSCI Property Fund Indexes Methodology and MSCI/AREF UK Quarterly Property Fund Index Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Net Total Return - unitized adjusted for crossholdings
Sample Filter	-
Measure Function	75th Vehicle-Level Percentile

Peer Benchmark Name	MSCI/AREF UK Other Balanced Quarterly Property Fund Index (50th Vehicle-level Percentile Net Total Return–unitized adjusted for crossholdings; GBP)
Peer Group Filter	MSCI/AREF Other Balanced UK Quarterly Property Fund Index
Geographic Filter	UK
Property Attribute Filter	-
Primary Methodology	MSCI Property Fund Indexes Methodology and MSCI/AREF UK Quarterly Property Fund Index Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Net Total Return - unitized adjusted for crossholdings
Sample Filter	-
Measure Function	50th Vehicle-Level Percentile

Peer Benchmark Name	MSCI/AREF UK Other Balanced Quarterly Property Fund Index (25th Vehicle-level Percentile Net Total Return–unitized adjusted for crossholdings; GBP)
Peer Group Filter	MSCI/AREF Other Balanced UK Quarterly Property Fund Index
Geographic Filter	UK
Property Attribute Filter	-
Primary Methodology	MSCI Property Fund Indexes Methodology and MSCI/AREF UK Quarterly Property Fund Index Methodology
History	Frozen
Refresh Cycle	Quarterly
Minimum Valuation Frequency	Quarterly
Publication Frequency	Quarterly
Rebalancing Frequency	-
Currency	GBP
Measure	Net Total Return - unitized adjusted for crossholdings
Sample Filter	-
Measure Function	25th Vehicle-Level Percentile



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