



# **Consultation on Liquidity and Selected Investability Topics**

**March 2009**

# Overview

- In constructing the MSCI Equity Indices, MSCI Barra uses the 1-year Annualized Traded Value Ratio (ATVR) as a measure for liquidity screening.
- However, given the recent market environment, it is observed that liquidity can be dramatically reduced for certain segments of the market. MSCI Barra now opens a consultation to seek feedback on potential enhancements to the existing liquidity screening process.
- In connection to the liquidity issue, MSCI Barra would also like to understand institutional investors' preference with regards to the use of depository receipts associated with illiquid local listings.
- Finally, MSCI Barra would also like to take this opportunity to consult on the treatment of suspended companies and markets.
- Please note that the consultation may or may not lead to changes in the MSCI Equity Indices.

# Summary of Proposals

- Introduction of Additional Liquidity Measures for the MSCI ACWI Investable Market Index.
  - Review index liquidity on a quarterly basis.
  - Incorporate 3-month ATVR and 3-month frequency of trading as additional liquidity requirements.
- Depository Receipts as an Alternative to Illiquid Local Listings.
  - Maintain a preference for local listing but consider for inclusion depository receipts if local listings fail to meet the minimum liquidity requirements.
- Treatment of Trading Suspensions.
  - Application of a fair value mechanism to adjust prices of suspended securities/markets in cases of negative market movements.
  - Clarification on the postponement of Index Review changes for suspended securities.

## Introduction of Additional Liquidity Measures

# Background

- Industry practitioners typically assess liquidity using measures such as average daily traded value and numbers of days to complete a trade.
  - However, such measures are absolute in nature and vary depending on the size of funds, size of securities and countries of investment .
  - This poses a practical issue in deriving a consistent measure from an index construction perspective.
- The ATVR is a relative liquidity concept. It offers the advantage of measuring liquidity in a consistent way across different markets while taking into account the free float-adjusted market capitalization size of securities.

# Proposed Enhancement to the Liquidity Requirements

- In addition to the existing 1-year ATVR requirement, MSCI Barra proposes to introduce two short term liquidity requirements for new and existing index constituents for Developed and Emerging Markets (Global Investable Market Indices):
  - 3-month ATVR
  - 3- month frequency of trading\*
- Non-index constituents would have to meet all three liquidity requirements to be considered for inclusion in the indices during Quarterly and Semi-Annual Index Reviews.
- Existing index constituents would have to meet the following requirements to be maintained in the indices:
  - At Quarterly Index Reviews: 3-month ATVR and 3-month frequency of trading requirements (applying a 50% buffer).
  - At Semi-Annual Index Reviews: 1-year ATVR requirement (applying a 2/3 buffer) in addition to the above mentioned quarterly requirements.

\* *number of days traded / number of exchange trading days in the past 3 months*

# Proposed Enhancement to the Liquidity Requirements

## Proposed Liquidity Requirements

Category	Current		Additional Proposed	
	Minimum 1Y ATVR	Market relative ATVR *	Minimum 3M ATVR	Minimum 3M Trading Freq
<b>Standard</b>				
DM	20% (13.33%)	Yes	20% (10%)	90% (80%)
EM	15% (10%)	Yes	15% (7.5%)	90% (80%)
<b>Small Cap</b>				
DM	20% (13.33%)		20% (10%)	90% (80%)
EM	15% (10%)		15% (7.5%)	80% (70%)
<b>Frontier Markets</b>				
Liquid FM	15% (10%)		-	-
Illiquid FM	5% (3.33%)		-	-
Very Illiquid FM	2.5% (1.67%)		-	-

*Note: Number in brackets represent the minimum requirements for current index constituents after applying the buffer*

*\* Please see appendix for Minimum Market-Relative liquidity requirement details*

# Sensitivity Analysis: Standard Indices

Sensitivity Analysis: Standard

1 Year ATVR	DM		EM		Liquid FM		Iliquid FM		Very Iliquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 20%	1	0.02%	11	1.1%	26	16.0%	20	6.6%	27	9.2%
< 15%	-	-	5	0.7%	16	8.8%	16	4.0%	26	8.6%
< 13.33%	-	-	5	0.7%	14	8.3%	16	4.0%	25	8.5%
< 10%	-	-	3	0.6%	6	2.8%	14	3.7%	22	6.9%
< 7.5%	-	-	3	0.6%	4	1.9%	9	2.6%	19	6.6%
< 5%	-	-	3	0.6%	3	1.1%	4	1.2%	15	4.9%
< 3.33%	-	-	2	0.4%	3	1.1%	1	0.1%	14	4.9%
< 2.5%	-	-	1	0.2%	2	1.0%	1	0.1%	10	4.1%
< 1.67%	-	-	1	0.2%	1	0.8%	1	0.1%	8	3.4%
< 1.25%	-	-	1	0.2%	1	0.8%	1	0.1%	7	3.2%

  

3 Month ATVR	DM		EM		Liquid FM		Iliquid FM		Very Iliquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 20%	2	0.03%	28	4.8%	43	23.4%	23	7.6%	29	9.4%
< 15%	1	0.01%	15	3.9%	38	21.9%	20	5.0%	28	9.3%
< 13.33%	-	-	12	3.7%	32	18.4%	19	4.8%	28	9.3%
< 10%	-	-	8	1.0%	26	13.2%	18	4.4%	24	8.0%
< 7.5%	-	-	5	0.7%	16	8.6%	14	3.5%	23	7.6%
< 5%	-	-	3	0.5%	12	6.2%	11	2.5%	17	5.5%
< 3.33%	-	-	2	0.3%	8	4.2%	7	1.7%	14	4.7%
< 2.5%	-	-	2	0.3%	6	3.7%	5	1.1%	14	4.7%
< 1.67%	-	-	2	0.3%	4	3.5%	2	0.3%	10	3.7%
< 1.25%	-	-	2	0.3%	4	3.5%	1	0.1%	9	3.6%

  

3M Frequency	DM		EM		Liquid FM		Iliquid FM		Very Iliquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 100%	34	1.9%	25	1.6%	47	26.2%	10	1.9%	22	6.8%
< 90%	1	0.0%	5	0.5%	14	6.4%	6	1.0%	15	4.9%
< 80%	1	0.0%	4	0.4%	9	4.2%	4	0.6%	14	4.4%
< 70%	1	0.0%	1	0.1%	6	2.7%	3	0.5%	11	3.9%
< 60%	1	0.0%	1	0.1%	5	2.6%	2	0.4%	8	3.2%
< 50%	1	0.0%	1	0.1%	4	2.5%	2	0.4%	5	2.7%

  

3M Avg Daily Traded Value	DM		EM		Liquid FM		Iliquid FM		Very Iliquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 10M USD	410	4.2%	482	29.4%	129	60.9%	24	7.7%	33	10.7%
< 5M USD	159	1.3%	326	15.9%	120	53.3%	24	7.7%	33	10.7%
< 2M USD	21	0.1%	149	6.0%	110	47.3%	24	7.7%	33	10.7%
< 1M USD	5	0.0%	76	2.8%	94	35.9%	24	7.7%	33	10.7%
< 0.5M USD	-	-	21	0.7%	73	25.4%	23	5.7%	32	9.7%
< 0.25M USD	-	-	10	0.4%	49	14.0%	23	5.7%	31	9.0%
< 0.1M USD	-	-	1	0.1%	26	7.6%	17	3.7%	25	6.3%

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer



# Sensitivity Analysis: Small Indices

## Sensitivity Analysis: Small

1 Year ATVR	DM		EM		Liquid FM		Illiquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 20%	175	1.65%	182	9.6%	23	17.7%	7	3.7%
< 15%	75	0.64%	117	6.1%	19	15.7%	7	3.7%
< 13.33%	53	0.48%	97	5.0%	17	14.3%	7	3.7%
< 10%	20	0.16%	59	2.9%	12	10.9%	6	3.5%
< 7.5%	4	0.02%	29	1.5%	8	7.9%	5	2.7%
< 5%	-	-	12	0.5%	7	7.2%	5	2.7%
< 3.33%	-	-	3	0.1%	2	2.9%	1	0.7%
< 2.5%	-	-	2	0.1%	-	-	-	-
< 1.67%	-	-	1	0.0%	-	-	-	-
< 1.25%	-	-	1	0.0%	-	-	-	-

  

3 Month ATVR	DM		EM		Liquid FM		Illiquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 20%	382	3.66%	300	17.4%	52	34.1%	7	3.7%
< 15%	246	2.18%	226	12.2%	45	31.1%	7	3.7%
< 13.33%	201	1.66%	201	10.8%	40	28.1%	7	3.7%
< 10%	116	0.93%	142	7.9%	32	23.5%	7	3.7%
< 7.5%	74	0.60%	103	5.6%	27	21.4%	7	3.7%
< 5%	27	0.18%	68	3.3%	20	17.1%	6	3.5%
< 3.33%	12	0.07%	42	2.0%	14	13.6%	5	3.0%
< 2.5%	6	0.04%	25	1.1%	11	12.0%	5	3.0%
< 1.67%	3	0.03%	16	0.6%	8	10.0%	3	2.0%
< 1.25%	1	0.01%	11	0.5%	7	7.5%	3	2.0%

  

3M Frequency	DM		EM		Liquid FM		Illiquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 100%	225	1.9%	216	13.7%	109	68.7%	7	3.7%
< 90%	40	0.3%	54	2.1%	75	43.5%	7	3.7%
< 80%	13	0.1%	29	1.1%	58	31.9%	7	3.7%
< 70%	8	0.0%	17	0.6%	40	21.2%	7	3.7%
< 60%	3	0.0%	12	0.4%	27	15.9%	6	3.5%
< 50%	2	0.0%	7	0.2%	19	12.2%	5	2.7%

  

3M Avg Daily Traded Value	DM		EM		Liquid FM		Illiquid FM	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
< 10M USD	4,126	86.6%	1,611	97.6%	145	96.3%	7	3.7%
< 5M USD	3,715	61.6%	1,561	91.5%	145	96.3%	7	3.7%
< 2M USD	2,940	36.5%	1,415	76.8%	144	95.3%	7	3.7%
< 1M USD	2,169	20.2%	1,249	63.4%	136	87.9%	7	3.7%
< 0.5M USD	1,534	11.4%	999	44.9%	121	70.0%	7	3.7%
< 0.25M USD	922	5.7%	737	30.0%	101	55.1%	7	3.7%
< 0.1M USD	403	1.9%	432	15.5%	71	38.9%	7	3.7%
< 0.05M USD	176	0.7%	240	7.7%	52	29.2%	7	3.7%
< 0.01M USD	12	0.0%	46	1.3%	14	9.3%	7	3.7%

Note: Data As of March 9, 2009

	Min requirement
	Min requirement with buffer

# Understanding Liquidity Requirements in the Investment Process

- How do you define liquidity in your investment process?
  - What's your definition of illiquidity?
  - Do you use the traded value in absolute dollar amount, number of days to complete a trade or a relative measure taking into account the size of securities? What are the typical guidelines?
  - What's the typical time horizon of assessment – past week, last month, last 3 months or past one year? Do you consider both short term and long term horizons?
  - Is frequency of trading an explicit consideration? e.g. a security has to trade a least 80% in a year?
  - Is there any other measures that you use in assessing liquidity?

## **Depository Receipts as an Alternative to Illiquid Local Listings**

# Background

- Trading volumes in depository receipts associated with a security, such as ADRs or GDRs, are currently included in the calculation of the ATVR.
- However, in selecting security for inclusion in the MSCI Equity Indices, it is MSCI Barra's general policy to choose local listing over its depository receipts.
  - Not all depository receipts are fully fungible resulting in potential premium/discount versus local securities. Potential counterparty risk particularly for unsponsored depository receipts.
  - Depository receipts trading in a different time zone and geography complicate the index management and calculation.
- MSCI Barra recognizes that some institutional investors do invest in depository receipts of country (particularly in certain Emerging and Frontier Market countries) where the local listings are less liquid and relatively difficult to access.

# Using Depository Receipts as an Alternative Price Source for Illiquid Local Listings

- MSCI Barra will continue to maintain a preference for local listings but proposes to amend its current policy to consider for inclusion depository receipts if all following conditions are met:
  - A local listing fails to meet the minimum liquidity requirements on the security level while its associated depository receipt meets all investability requirements.
  - The depository receipt must be trading in the same time zone.
- The eligibility of the depository receipts would be reviewed at each index review (quarterly).
  - MSCI Barra would consider switching back to the local listing if it demonstrates significant and consistent improvements in relative liquidity.

## Treatment of Trading Suspensions

# Valuation of Suspended Securities

- MSCI Barra's current policy is to maintain in the MSCI Equity Indices companies that are temporarily suspended and for which a return to normal business trading is likely in the near future. MSCI Barra maintains the suspended securities at their last traded price.
- MSCI Barra proposes to adjust the valuation of suspended MSCI Global Standard Index constituents after the 5<sup>th</sup> day of suspension if the respective MSCI Standard Country Index experiences a negative price performance of 10% or more.
  - MSCI Barra would adjust the valuation of a suspended security by using the price of its associated depository receipt if it is fully fungible and listed in the same time zone. Otherwise, the performance of the respective MSCI Standard Country Index would be applied.
  - In the event of an adjustment, the price of the suspended security would always be capped at the level corresponding to its last traded price, i.e., no upward adjustment would be applied.
  - The valuation adjustment would be reviewed on a weekly basis.
- In addition, should MSCI Barra limit the maintenance period of suspended securities?

# Valuation of MSCI Standard Country Indices Impacted by Market Trading Suspensions

- In case of a prolonged market-wide trading suspension, MSCI Barra proposes to apply a valuation adjustment mechanism similar to the one applied for trading suspensions at security level.
- MSCI Barra would adjust the valuation of a MSCI Standard Country Index impacted by a prolonged market-wide trading suspension after the 5<sup>th</sup> day of suspension if the respective MSCI Standard Regional Index experiences a negative price performance of 10% or more.
  - MSCI Barra would adjust the valuation of a MSCI Standard Country Index by applying the performance of its corresponding MSCI Standard Regional Index.
  - In the event of an adjustment, the valuation of the country index would always be capped at the level corresponding to its last traded price i.e. no upward adjustment would be applied.
  - The valuation adjustment would be reviewed on a weekly basis.
- In addition, excessive trading restrictions such as the imposition of floor price or the imposition of a very narrow trading band contributing to drastic liquidity decline of the market would also be dealt in the same fashion.



# Valuation of MSCI Standard Country Indices Impacted by Market Trading Suspensions (continued)

- If the suspension lasts for a significant time period, MSCI Barra would start consulting with market participants on a potential exclusion of the market from its current investment universe
  - For the case of the MSCI Pakistan Index, MSCI Barra monitored the situation for more than 3 months before opening a consultation on a proposal to remove the index from the MSCI Emerging Markets Index.\*
- Is 3 months an appropriate monitoring period before opening a consultation on an exclusion proposal?

\* The removal of the MSCI Pakistan Index from the MSCI Emerging Markets Index was implemented as of the close of December 31, 2008.

# Treatment of Temporary Trading Suspensions During the Index Review Period

- MSCI Barra's current policy for securities impacted by changes resulting from the Index Review and that are suspended on the Index Reviews' effective date\* is to implement these changes as announced rather than postponing them.\*\*
- MSCI Barra proposes to make a distinction for suspensions impacting announced additions to and deletions from the MSCI Global Standard Indices between those occurring:
  - On or before the close of the market of the day prior to the Index Review effective date.\*
    - Additions to and deletions from the MSCI Global Standard Indices would be postponed to the date on which the securities resume trading.
  - On the Index Review effective date.\*
    - Additions to and deletions from the MSCI Global Standard Indices would be implemented as announced.

\*As of the close of the last business days of February, May, August and November.

\*\* MSCI Barra can make some exceptions to this policy based on, for example, the reason of the suspension, the timing or the companies' relative size.

## Appendixes

# Annualized Traded Value Ratio Definition

- Three step process in the Annualized Traded Value Ratio (ATVR) calculation:
  - Step 1: monthly median traded values are computed using the **median daily traded value, multiplied by the number of days in the month that the security traded**. The daily traded value of a security is equal to the number of shares traded during the day, multiplied by the closing price of that security. The median daily traded value is the median of the daily traded values in a given month.
  - Step 2: the monthly median traded value of a security is divided by its free float-adjusted security market capitalization at the end of the month, giving the monthly median traded value ratio.
  - Step 3: the ATVR is obtained by taking the **average of the monthly median traded value ratios of the previous 12 months** – or the number of months for which this data is available – and annualizing it by multiplying it by 12.

# Minimum Market-Relative Liquidity Requirement for the Standard Index

## Minimum Market-Relative Liquidity Requirements for the Standard Index

### Developed Markets

Country	Minimum ATVR
Australia	50%
Canada	36%
Europe	29%
Hong Kong	35%
Japan	49%
New Zealand	20%
Singapore	42%
USA	25%

### Emerging Markets

Country	Minimum ATVR
Brazil	50%
Chile	15%
China	50%
Colombia	19%
Czech Republic	50%
Egypt	15%
Hungary	50%
India	50%
Indonesia	15%
Israel	38%
Korea	30%
Malaysia	15%
Mexico	15%
Morocco	17%
Peru	18%
Philippines	15%
Poland	15%
Russia	50%
South Africa	28%
Taiwan	48%
Thailand	33%
Turkey	20%

Note: Data As of February, 2009

# Current Treatment of Trading Suspensions Related to Bankruptcies / Protection Filings

- MSCI Barra's general policy is to remove from the MSCI Equity Indices as soon as practicable companies that file for bankruptcy and companies that file for protection from their creditors and/or are suspended and for which a return to normal business activity and trading is unlikely in the near future.
- When the primary exchange price is not available, MSCI Barra will delete securities at an over-the-counter or equivalent market price when such a price is available and deemed relevant. If no over-the-counter or equivalent price is available, the security will be deleted at the smallest price (unit or fraction of the currency) at which a security can trade on a given exchange.

## Liquidity Profile By Country

# MSCI Developed Markets Standard Indices (1 Year ATVR)

Standard	1 Year ATVR															
	< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
DM																
AUSTRALIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AUSTRIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BELGIUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DENMARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FINLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANCE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GERMANY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREECE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HONG KONG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IRELAND	1	13.2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITALY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JAPAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETHERLANDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW ZEALAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORWAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PORTUGAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SINGAPORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPAIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWEDEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWITZERLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNITED KINGDOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
 Min requirement with buffer



# MSCI Emerging Markets Standard Indices (1 Year ATVR)

Standard	1 Year ATVR															
	< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>EM</b>																
BRAZIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILE	3	12.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLOMBIA	1	11.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CZECH REPUBLIC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EGYPT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HUNGARY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDONESIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISRAEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KOREA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MALAYSIA	2	5.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEXICO	1	1.1%	1	1.1%	1	1.1%	-	-	-	-	-	-	-	-	-	-
MOROCCO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERU	4	100.0%	4	100.0%	4	100.0%	3	93.4%	3	93.4%	3	93.4%	2	68.8%	1	36.4%
PHILIPPINES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSSIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH AFRICA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAIWAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
THAILAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TURKEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer

# MSCI Developed Markets Standard Indices (3-Month ATVR)

Standard	3 Month ATVR															
	< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>DM</b>																
AUSTRALIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AUSTRIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BELGIUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DENMARK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FINLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANCE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GERMANY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREECE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HONG KONG	1	0.7%	1	0.73%	-	-	-	-	-	-	-	-	-	-	-	-
IRELAND	1	13.2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITALY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JAPAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NETHERLANDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW ZEALAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORWAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PORTUGAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SINGAPORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPAIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWEDEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWITZERLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNITED KINGDOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
 Min requirement with buffer

# MSCI Emerging Markets Standard Indices (3-Month ATVR)

Standard	3 Month ATVR															
	< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>EM</b>																
BRAZIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILE	3	12.3%	2	10.1%	1	3.0%	1	3.0%	-	-	-	-	-	-	-	-
CHINA	1	0.3%	1	0.3%	1	0.3%	1	0.3%	1	0.3%	1	0.3%	1	0.3%	1	0.3%
COLOMBIA	2	22.1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CZECH REPUBLIC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EGYPT	1	4.4%	1	4.4%	-	-	-	-	-	-	-	-	-	-	-	-
HUNGARY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDONESIA	2	6.2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISRAEL	2	66.7%	1	65.4%	1	65.4%	-	-	-	-	-	-	-	-	-	-
KOREA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MALAYSIA	8	19.1%	4	6.9%	3	6.2%	1	0.7%	-	-	-	-	-	-	-	-
MEXICO	1	1.1%	1	1.1%	1	1.1%	-	-	-	-	-	-	-	-	-	-
MOROCCO	1	39.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERU	4	100.0%	4	100.0%	4	100.0%	4	100.0%	4	100.0%	2	68.8%	1	36.4%	1	36.4%
PHILIPPINES	1	2.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLAND	1	1.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSSIA	1	3.3%	1	3.3%	1	3.3%	1	3.3%	-	-	-	-	-	-	-	-
SOUTH AFRICA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAIWAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
THAILAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TURKEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer

# MSCI Developed Markets Standard Indices (3-Month Trading Frequency)

## 3 Month Frequency of Trading

Standard	< 100%		< 90%		< 80%		< 70%		< 60%		< 50%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>DM</b>												
AUSTRALIA	18	32.0%	1	0.3%	1	0.3%	1	0.3%	1	0.3%	1	0.3%
AUSTRIA	-	-	-	-	-	-	-	-	-	-	-	-
BELGIUM	1	4.5%	-	-	-	-	-	-	-	-	-	-
CANADA	1	0.3%	-	-	-	-	-	-	-	-	-	-
DENMARK	-	-	-	-	-	-	-	-	-	-	-	-
FINLAND	-	-	-	-	-	-	-	-	-	-	-	-
FRANCE	-	-	-	-	-	-	-	-	-	-	-	-
GERMANY	-	-	-	-	-	-	-	-	-	-	-	-
GREECE	-	-	-	-	-	-	-	-	-	-	-	-
HONG KONG	-	-	-	-	-	-	-	-	-	-	-	-
IRELAND	-	-	-	-	-	-	-	-	-	-	-	-
ITALY	4	9.6%	-	-	-	-	-	-	-	-	-	-
JAPAN	8	5.9%	-	-	-	-	-	-	-	-	-	-
NETHERLANDS	-	-	-	-	-	-	-	-	-	-	-	-
NEW ZEALAND	-	-	-	-	-	-	-	-	-	-	-	-
NORWAY	-	-	-	-	-	-	-	-	-	-	-	-
PORTUGAL	-	-	-	-	-	-	-	-	-	-	-	-
SINGAPORE	2	6.8%	-	-	-	-	-	-	-	-	-	-
SPAIN	-	-	-	-	-	-	-	-	-	-	-	-
SWEDEN	-	-	-	-	-	-	-	-	-	-	-	-
SWITZERLAND	-	-	-	-	-	-	-	-	-	-	-	-
UNITED KINGDOM	-	-	-	-	-	-	-	-	-	-	-	-
USA	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer

# MSCI Emerging Markets Standard Indices (3-Month Trading Frequency)

## 3 Month Frequency of Trading

Standard	< 100%		< 90%		< 80%		< 70%		< 60%		< 50%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>EM</b>												
BRAZIL	-	-	-	-	-	-	-	-	-	-	-	-
CHILE	-	-	-	-	-	-	-	-	-	-	-	-
CHINA	5	1.5%	1	0.3%	1	0.3%	1	0.3%	1	0.3%	1	0.3%
COLOMBIA	-	-	-	-	-	-	-	-	-	-	-	-
CZECH REPUBLIC	-	-	-	-	-	-	-	-	-	-	-	-
EGYPT	-	-	-	-	-	-	-	-	-	-	-	-
HUNGARY	1	34.1%	-	-	-	-	-	-	-	-	-	-
INDIA	-	-	-	-	-	-	-	-	-	-	-	-
INDONESIA	-	-	-	-	-	-	-	-	-	-	-	-
ISRAEL	-	-	-	-	-	-	-	-	-	-	-	-
KOREA	2	0.7%	2	0.7%	1	0.5%	-	-	-	-	-	-
MALAYSIA	4	9.3%	-	-	-	-	-	-	-	-	-	-
MEXICO	-	-	-	-	-	-	-	-	-	-	-	-
MOROCCO	2	22.7%	-	-	-	-	-	-	-	-	-	-
PERU	2	43.0%	1	36.4%	1	36.4%	-	-	-	-	-	-
PHILIPPINES	1	11.4%	1	11.4%	1	11.4%	-	-	-	-	-	-
POLAND	-	-	-	-	-	-	-	-	-	-	-	-
RUSSIA	7	4.4%	-	-	-	-	-	-	-	-	-	-
SOUTH AFRICA	-	-	-	-	-	-	-	-	-	-	-	-
TAIWAN	-	-	-	-	-	-	-	-	-	-	-	-
THAILAND	1	3.8%	-	-	-	-	-	-	-	-	-	-
TURKEY	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer

# MSCI Developed Markets Standard Indices (3-Month Avg Daily Traded Value)

Standard	3 Month Average Daily Trade Value													
	< 5M USD		< 2M USD		< 1M USD		< 0.5M USD		< 0.25M USD		< 0.1M USD		< 0.05M USD	
	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)
<b>DM</b>														
AUSTRALIA	15	3.4%	1	0.1%	-	-	-	-	-	-	-	-	-	-
AUSTRIA	3	12.0%	-	-	-	-	-	-	-	-	-	-	-	-
BELGIUM	1	3.0%	-	-	-	-	-	-	-	-	-	-	-	-
CANADA	26	5.0%	2	0.2%	-	-	-	-	-	-	-	-	-	-
DENMARK	6	15.1%	-	-	-	-	-	-	-	-	-	-	-	-
FINLAND	2	2.4%	-	-	-	-	-	-	-	-	-	-	-	-
FRANCE	6	0.9%	1	0.2%	-	-	-	-	-	-	-	-	-	-
GERMANY	4	1.2%	1	0.2%	-	-	-	-	-	-	-	-	-	-
GREECE	3	14.2%	2	7.5%	1	3.5%	-	-	-	-	-	-	-	-
HONG KONG	17	11.8%	4	2.1%	3	1.5%	-	-	-	-	-	-	-	-
IRELAND	1	13.2%	-	-	-	-	-	-	-	-	-	-	-	-
ITALY	7	3.1%	2	1.2%	1	0.3%	-	-	-	-	-	-	-	-
JAPAN	31	2.0%	-	-	-	-	-	-	-	-	-	-	-	-
NETHERLANDS	1	0.2%	-	-	-	-	-	-	-	-	-	-	-	-
NEW ZEALAND	4	61.5%	3	38.7%	-	-	-	-	-	-	-	-	-	-
NORWAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PORTUGAL	3	15.2%	1	3.8%	-	-	-	-	-	-	-	-	-	-
SINGAPORE	8	10.3%	3	3.0%	-	-	-	-	-	-	-	-	-	-
SPAIN	2	1.4%	-	-	-	-	-	-	-	-	-	-	-	-
SWEDEN	2	1.9%	-	-	-	-	-	-	-	-	-	-	-	-
SWITZERLAND	7	1.8%	-	-	-	-	-	-	-	-	-	-	-	-
UNITED KINGDOM	2	0.2%	-	-	-	-	-	-	-	-	-	-	-	-
USA	8	0.2%	1	0.0%	-	-	-	-	-	-	-	-	-	-

# MSCI Emerging Markets Standard Indices (3-Month Avg Daily Traded Value)

Standard	3 Month Average Daily Trade Value													
	< 5M USD		< 2M USD		< 1M USD		< 0.5M USD		< 0.25M USD		< 0.1M USD		< 0.05M USD	
	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)	Nb of Sec	Mcap (%)
<b>EM</b>														
BRAZIL	25	8.0%	6	1.3%	-	-	-	-	-	-	-	-	-	-
CHILE	13	76.0%	7	28.4%	3	8.1%	2	5.2%	-	-	-	-	-	-
CHINA	31	7.8%	5	1.0%	1	0.3%	1	0.3%	1	0.3%	1	0.3%	1	0.3%
COLOMBIA	5	52.6%	5	52.6%	4	40.8%	-	-	-	-	-	-	-	-
CZECH REPUBLIC	2	5.6%	1	1.7%	-	-	-	-	-	-	-	-	-	-
EGYPT	10	63.4%	4	16.5%	3	12.8%	1	4.4%	-	-	-	-	-	-
HUNGARY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIA	16	8.6%	3	1.0%	2	0.5%	-	-	-	-	-	-	-	-
INDONESIA	16	62.0%	7	16.9%	3	8.2%	1	1.5%	-	-	-	-	-	-
ISRAEL	11	7.7%	5	3.2%	2	1.7%	-	-	-	-	-	-	-	-
KOREA	10	2.5%	3	0.7%	1	0.2%	-	-	-	-	-	-	-	-
MALAYSIA	36	69.4%	25	35.0%	18	17.1%	8	5.2%	3	1.9%	-	-	-	-
MEXICO	17	24.4%	9	10.2%	2	2.2%	-	-	-	-	-	-	-	-
MOROCCO	6	100.0%	4	43.6%	2	19.7%	-	-	-	-	-	-	-	-
PERU	4	100.0%	4	100.0%	4	100.0%	2	43.0%	2	43.0%	-	-	-	-
PHILIPPINES	12	70.0%	11	58.6%	7	31.4%	1	2.0%	1	2.0%	-	-	-	-
POLAND	16	33.4%	11	17.3%	6	7.5%	2	2.2%	1	1.0%	-	-	-	-
RUSSIA	13	12.8%	8	6.6%	4	1.3%	1	0.1%	1	0.1%	-	-	-	-
SOUTH AFRICA	16	12.3%	2	0.8%	-	-	-	-	-	-	-	-	-	-
TAIWAN	42	12.4%	15	3.2%	7	1.3%	-	-	-	-	-	-	-	-
THAILAND	15	40.9%	10	20.3%	5	6.0%	2	2.2%	1	0.9%	-	-	-	-
TURKEY	10	20.0%	4	6.5%	2	2.1%	-	-	-	-	-	-	-	-

# MSCI Developed Markets Small Cap Indices (1 Year ATVR)

Small		1 Year ATVR															
		< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
		Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>DM</b>																	
	AUSTRALIA	6	2.9%	1	0.9%	1	0.9%	-	-	-	-	-	-	-	-	-	-
	AUSTRIA	1	0.5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BELGIUM	5	5.6%	1	1.2%	-	-	-	-	-	-	-	-	-	-	-	-
	CANADA	2	0.5%	2	0.5%	1	0.3%	-	-	-	-	-	-	-	-	-	-
	DENMARK	6	7.8%	3	3.9%	2	3.4%	1	1.6%	-	-	-	-	-	-	-	-
	FINLAND	4	5.9%	3	4.7%	2	2.4%	1	0.5%	-	-	-	-	-	-	-	-
	FRANCE	11	7.4%	1	1.0%	1	1.0%	-	-	-	-	-	-	-	-	-	-
	GERMANY	2	0.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GREECE	6	8.3%	4	6.1%	3	5.2%	1	1.6%	1	1.6%	-	-	-	-	-	-
	HONG KONG	17	12.1%	9	5.7%	8	5.2%	6	4.3%	1	0.3%	-	-	-	-	-	-
	IRELAND	2	3.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ITALY	12	5.5%	6	2.5%	5	2.2%	1	0.4%	-	-	-	-	-	-	-	-
	JAPAN	15	1.5%	5	0.3%	2	0.1%	-	-	-	-	-	-	-	-	-	-
	NETHERLANDS	1	2.8%	1	2.8%	-	-	-	-	-	-	-	-	-	-	-	-
	NEW ZEALAND	3	12.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NORWAY	7	6.1%	6	5.7%	6	5.7%	1	0.6%	1	0.6%	-	-	-	-	-	-
	PORTUGAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SINGAPORE	13	11.4%	6	4.4%	2	1.6%	1	1.1%	-	-	-	-	-	-	-	-
	SPAIN	4	6.9%	2	5.7%	2	5.7%	1	3.4%	-	-	-	-	-	-	-	-
	SWEDEN	4	2.2%	1	0.3%	1	0.3%	1	0.3%	-	-	-	-	-	-	-	-
	SWITZERLAND	14	11.8%	3	2.5%	2	1.8%	-	-	-	-	-	-	-	-	-	-
	UNITED KINGDOM	34	3.7%	18	1.8%	14	1.4%	5	0.5%	1	0.1%	-	-	-	-	-	-
	USA	6	0.1%	3	0.0%	1	0.0%	1	0.0%	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer



# MSCI Emerging Markets Small Cap Indices (1 Year ATVR)

Small		1 Year ATVR															
		< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
		Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>EM</b>																	
	BRAZIL	5	3.7%	3	2.7%	2	1.1%	1	0.3%	1	0.3%	1	0.3%	-	-	-	-
	CHILE	7	38.2%	5	30.3%	4	27.9%	3	12.0%	-	-	-	-	-	-	-	-
	CHINA	7	2.1%	5	1.4%	5	1.4%	3	1.0%	1	0.2%	1	0.2%	-	-	-	-
	COLOMBIA	1	30.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CZECH REPUBLIC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EGYPT	4	21.6%	2	15.4%	2	15.4%	2	15.4%	1	8.2%	-	-	-	-	-	-
	HUNGARY	3	51.9%	2	25.8%	2	25.8%	1	13.1%	-	-	-	-	-	-	-	-
	INDIA	40	15.5%	26	10.4%	21	9.3%	11	5.3%	4	1.4%	2	0.5%	1	0.3%	1	0.3%
	INDONESIA	11	30.0%	8	16.7%	8	16.7%	6	14.1%	4	10.4%	-	-	-	-	-	-
	ISRAEL	4	7.5%	2	2.8%	2	2.8%	-	-	-	-	-	-	-	-	-	-
	KOREA	6	1.6%	4	1.0%	2	0.3%	1	0.1%	1	0.1%	1	0.1%	-	-	-	-
	MALAYSIA	29	35.4%	20	27.7%	16	18.9%	11	13.6%	7	9.1%	4	4.4%	2	1.5%	1	0.5%
	MEXICO	5	10.4%	5	10.4%	5	10.4%	3	2.6%	1	0.4%	-	-	-	-	-	-
	MOROCCO	3	52.1%	3	52.1%	3	52.1%	2	36.7%	2	36.7%	-	-	-	-	-	-
	PERU	1	33.2%	1	33.2%	1	33.2%	-	-	-	-	-	-	-	-	-	-
	PHILIPPINES	4	21.0%	3	16.6%	3	16.6%	3	16.6%	3	16.6%	1	7.9%	-	-	-	-
	POLAND	13	38.6%	8	19.9%	7	17.4%	6	9.9%	2	5.5%	1	3.7%	-	-	-	-
	RUSSIA	6	24.1%	4	13.4%	3	10.9%	2	7.2%	1	2.0%	-	-	-	-	-	-
	SOUTH AFRICA	19	15.4%	12	8.1%	9	5.7%	3	1.5%	-	-	-	-	-	-	-	-
	TAIWAN	9	2.2%	4	0.5%	2	0.3%	1	0.2%	1	0.2%	1	0.2%	-	-	-	-
	THAILAND	4	4.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TURKEY	1	2.2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer

# MSCI Developed Markets Small Cap Indices (3-Month ATVR)

Small		3 Month ATVR															
		< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
		Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>DM</b>																	
AUSTRALIA		20	7.2%	14	5.1%	7	2.7%	6	2.2%	2	0.7%	-	-	-	-	-	-
AUSTRIA		4	4.8%	2	1.4%	1	0.5%	-	-	-	-	-	-	-	-	-	-
BELGIUM		10	10.5%	5	5.0%	4	4.5%	3	3.4%	2	1.7%	-	-	-	-	-	-
CANADA		11	2.7%	4	0.9%	3	0.6%	-	-	-	-	-	-	-	-	-	-
DENMARK		13	23.9%	8	10.5%	5	6.5%	2	2.2%	1	0.4%	-	-	-	-	-	-
FINLAND		7	14.9%	6	14.1%	6	14.1%	2	5.0%	-	-	-	-	-	-	-	-
FRANCE		22	11.1%	15	9.3%	12	8.0%	5	4.6%	5	4.6%	-	-	-	-	-	-
GERMANY		12	3.6%	9	2.8%	7	1.9%	3	0.7%	2	0.6%	1	0.1%	1	0.1%	-	-
GREECE		16	20.8%	12	16.6%	11	14.0%	7	9.8%	4	6.5%	1	1.6%	-	-	-	-
HONG KONG		26	18.4%	19	11.5%	19	11.5%	15	9.2%	12	7.4%	9	6.0%	5	3.7%	4	3.3%
IRELAND		3	4.7%	2	3.3%	1	1.7%	1	1.7%	-	-	-	-	-	-	-	-
ITALY		32	19.6%	20	9.9%	16	7.2%	10	5.4%	8	3.9%	2	0.9%	-	-	-	-
JAPAN		35	3.4%	11	1.4%	6	0.4%	1	0.1%	1	0.1%	1	0.1%	-	-	-	-
NETHERLANDS		6	8.2%	4	5.3%	3	4.4%	1	0.7%	-	-	-	-	-	-	-	-
NEW ZEALAND		5	22.4%	2	7.8%	2	7.8%	-	-	-	-	-	-	-	-	-	-
NORWAY		17	14.7%	12	10.4%	10	8.7%	6	5.5%	5	4.6%	3	3.5%	1	0.6%	1	0.6%
PORTUGAL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SINGAPORE		24	21.2%	21	19.5%	21	19.5%	14	12.5%	8	7.4%	4	2.4%	3	2.0%	1	0.8%
SPAIN		12	14.4%	9	12.9%	7	10.3%	4	6.7%	2	5.3%	-	-	-	-	-	-
SWEDEN		8	8.5%	3	3.3%	3	3.3%	1	0.3%	1	0.3%	-	-	-	-	-	-
SWITZERLAND		27	25.9%	19	13.5%	18	12.4%	9	5.3%	1	0.7%	1	0.7%	-	-	-	-
UNITED KINGDOM		56	6.4%	41	4.2%	34	3.2%	24	2.3%	18	1.8%	4	0.3%	1	0.0%	-	-
USA		16	0.2%	8	0.1%	5	0.0%	2	0.0%	2	0.0%	1	0.0%	1	0.0%	-	-

Note: Data As of March 9, 2009

	Min requirement
	Min requirement with buffer

# MSCI Emerging Markets Small Cap Indices (3-Month ATVR)

Small		3 Month ATVR															
		< 20%		< 15%		< 13.33%		< 10%		< 7.5%		< 5%		< 3.33%		< 2.5%	
		Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>EM</b>																	
	BRAZIL	20	16.7%	13	10.1%	10	7.6%	6	5.3%	3	2.5%	2	1.9%	2	1.9%	2	1.9%
	CHILE	12	65.3%	9	46.0%	8	42.2%	7	38.1%	5	29.4%	3	8.7%	1	1.7%	-	-
	CHINA	14	4.9%	10	3.9%	9	3.0%	6	1.9%	5	1.8%	4	1.4%	1	0.1%	-	-
	COLOMBIA	1	30.0%	1	30.0%	1	30.0%	1	30.0%	-	-	-	-	-	-	-	-
	CZECH REPUBLIC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EGYPT	8	49.5%	8	49.5%	7	43.9%	5	35.4%	2	15.4%	1	8.2%	-	-	-	-
	HUNGARY	4	60.0%	3	51.9%	3	51.9%	2	25.8%	1	13.1%	1	13.1%	-	-	-	-
	INDIA	44	19.1%	35	14.3%	31	12.1%	20	8.4%	12	4.2%	6	1.8%	4	1.3%	2	0.5%
	INDONESIA	16	38.7%	16	38.7%	15	27.8%	14	25.8%	13	24.3%	12	21.0%	12	21.0%	9	13.8%
	ISRAEL	8	14.0%	5	8.2%	2	3.8%	-	-	-	-	-	-	-	-	-	-
	KOREA	11	2.5%	9	2.2%	7	1.7%	3	0.7%	3	0.7%	1	0.1%	1	0.1%	-	-
	MALAYSIA	45	56.7%	40	51.1%	38	49.2%	31	39.0%	25	31.9%	18	19.8%	14	14.7%	8	6.7%
	MEXICO	9	36.6%	5	10.4%	5	10.4%	4	8.9%	4	8.9%	2	1.1%	-	-	-	-
	MOROCCO	5	93.9%	4	60.4%	4	60.4%	2	25.8%	1	17.5%	-	-	-	-	-	-
	PERU	3	73.3%	2	57.2%	1	33.2%	1	33.2%	-	-	-	-	-	-	-	-
	PHILIPPINES	6	36.1%	4	21.9%	4	21.9%	4	21.9%	3	16.6%	2	11.6%	1	7.9%	1	7.9%
	POLAND	13	33.9%	8	20.5%	7	19.6%	5	17.9%	3	7.5%	3	7.5%	-	-	-	-
	RUSSIA	6	24.1%	4	13.4%	4	13.4%	3	10.9%	3	10.9%	-	-	-	-	-	-
	SOUTH AFRICA	33	27.6%	25	15.2%	23	14.4%	16	10.4%	12	7.4%	8	5.4%	5	3.7%	3	2.7%
	TAIWAN	29	7.3%	19	4.9%	18	4.7%	11	3.3%	7	2.5%	5	1.9%	1	0.6%	-	-
	THAILAND	10	21.3%	4	8.4%	3	3.8%	1	1.1%	1	1.1%	-	-	-	-	-	-
	TURKEY	3	6.9%	2	5.4%	1	2.2%	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

	Min requirement
	Min requirement with buffer

# MSCI Developed Markets Small Cap Indices (3-Month Trading Frequency)

## 3 Month Frequency of Trading

Small	< 100%		< 90%		< 80%		< 70%		< 60%		< 50%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>DM</b>												
AUSTRALIA	34	3.6%	4	1.2%	2	0.5%	2	0.3%	1	0.2%	1	0.1%
AUSTRIA	2	1.9%	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
BELGIUM	3	14.3%	-	-	-	-	-	0.5%	-	0.2%	-	0.2%
CANADA	14	2.0%	-	-	-	-	-	-	-	-	-	-
DENMARK	5	2.3%	1	0.2%	-	-	-	-	-	-	-	-
FINLAND	-	3.9%	-	-	-	-	-	-	-	-	-	-
FRANCE	1	4.2%	-	-	-	-	-	-	-	-	-	-
GERMANY	5	-	1	0.1%	-	-	-	-	-	-	-	-
GREECE	5	0.6%	1	3.2%	-	-	-	-	-	-	-	-
HONG KONG	30	1.1%	9	6.2%	6	3.8%	3	-	-	-	-	-
IRELAND	4	7.4%	1	1.7%	1	1.7%	1	-	-	-	-	-
ITALY	8	20.0%	-	-	-	-	-	1.5%	-	-	-	-
JAPAN	12	5.1%	1	0.1%	-	-	-	1.7%	-	-	-	-
NETHERLANDS	1	5.2%	-	-	-	-	-	-	-	-	-	-
NEW ZEALAND	2	1.0%	-	-	-	-	-	-	-	-	-	-
NORWAY	13	0.8%	5	3.1%	1	0.6%	1	-	1	-	-	-
PORTUGAL	-	4.9%	-	-	-	-	-	-	-	-	-	-
SINGAPORE	26	8.9%	10	6.8%	2	1.3%	1	0.6%	1	0.6%	1	-
SPAIN	3	-	-	-	-	-	-	-	-	-	-	-
SWEDEN	-	24.7%	-	-	-	-	-	0.8%	-	0.8%	-	0.8%
SWITZERLAND	13	2.3%	-	-	-	-	-	-	-	-	-	-
UNITED KINGDOM	40	-	6	0.7%	1	0.1%	-	-	-	-	-	-
USA	4	7.3%	1	0.0%	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

Min requirement  
Min requirement with buffer

# MSCI Emerging Markets Small Cap Indices (3-Month Trading Frequency)

## 3 Month Frequency of Trading

Small	< 100%		< 90%		< 80%		< 70%		< 60%		< 50%	
	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)	Nb of sec	Mcap (%)
<b>EM</b>												
BRAZIL	21	17.6%	8	6.0%	4	3.5%	2	1.6%	1	1.3%	-	-
CHILE	10	39.3%	5	14.0%	3	6.8%	1	1.5%	1	1.5%	1	1.5%
CHINA	36	17.9%	5	1.8%	2	0.6%	-	-	-	-	-	-
COLOMBIA	3	70.0%	-	-	-	-	-	-	-	-	-	-
CZECH REPUBLIC	1	28.8%	-	-	-	-	-	-	-	-	-	-
EGYPT	2	14.5%	-	-	-	-	-	-	-	-	-	-
HUNGARY	1	13.1%	1	13.1%	-	-	-	-	-	-	-	-
INDIA	3	0.8%	-	-	-	-	-	-	-	-	-	-
INDONESIA	11	21.6%	7	14.3%	4	5.8%	3	4.8%	3	4.8%	3	4.8%
ISRAEL	-	-	-	-	-	-	-	-	-	-	-	-
KOREA	5	0.5%	2	0.1%	1	0.0%	-	-	-	-	-	-
MALAYSIA	38	44.0%	10	8.4%	9	7.3%	6	5.9%	4	3.5%	-	-
MEXICO	7	33.1%	2	1.1%	-	-	-	-	-	-	-	-
MOROCCO	3	39.2%	-	-	-	-	-	-	-	-	-	-
PERU	3	60.0%	-	-	-	-	-	-	-	-	-	-
PHILIPPINES	7	37.9%	3	16.6%	2	8.7%	1	3.7%	1	3.7%	1	3.7%
POLAND	2	11.2%	-	-	-	-	-	-	-	-	-	-
RUSSIA	6	18.3%	2	5.8%	2	5.8%	2	5.8%	1	2.5%	1	2.5%
SOUTH AFRICA	44	36.5%	7	3.0%	2	0.6%	2	0.6%	1	0.2%	1	0.2%
TAIWAN	8	2.1%	2	0.2%	-	-	-	-	-	-	-	-
THAILAND	3	4.0%	-	-	-	-	-	-	-	-	-	-
TURKEY	2	3.7%	-	-	-	-	-	-	-	-	-	-

Note: Data As of March 9, 2009

	Min requirement
	Min requirement with buffer

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