



# INDEX RULE BOOK

## AEX<sup>®</sup> FAMILY

AEX-Index<sup>®</sup>, AMX-Index<sup>®</sup>, AScX<sup>®</sup>-Index and  
AEX<sup>®</sup> All-Tradable Index

Version 20-02a

Effective from 1 December 2020

[indices.euronext.com](https://indices.euronext.com)

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## 1. INDEX SUMMARY

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| <b>Factsheet</b>                                 | <b>AEX® Family</b>  |
|--|---|
| <b>Index names</b>                               | AEX-Index®, AMX-Index®, AScX®-Index and AEX® All-Tradable Index   |
| <b>Index type</b>                                | Price indices; Net return index and Gross return index versions are also available.   |
| <b>Index governance structure</b>                | The AEX Steering Committee acts as Supervisor of the AEX-Index family. Euronext Amsterdam is the Administrator and is responsible for the day-to-day management of the index.   |
| <b>Eligible stocks</b>                           | Companies admitted to listing on Euronext Amsterdam, that fulfil screening criteria regarding (among others) the trading form, classification and trading in euro.  |
| <b>Selection</b>                                 | <p>The index family is made up of shares issued by the highest ranking companies in terms of free float market capitalization. Eligible companies are required to fulfil the velocity thresholds and minimum Free Float Factor. The 25 highest ranking companies are included in the AEX, the following 25 are included in the AMX while the remainder is included in the AScX. Within the buffer zone (rankings 24-27) currently included companies are preferred over companies not yet included in each of the indices.</p> <p>The AEXAT consists of all companies included in AEX, AMX or AScX.</p> |
| <b>Number of constituents</b>                    | AEX and AMX: 25, AScX: maximum 25, AEXAT: maximum 75  |
| <b>Weighting</b>                                 | Based on free float adjusted market capitalization. The Free Float Factor is rounded to the nearest 5% multiple.  |
| <b>Capping</b>                                   | 15%   |
| <b>Review of composition</b>                     | Annual with quarterly fast entry or replacement. Effective after the third Friday of March (annual review), June, September and December.   |
| <b>Review of free float and number of shares</b> | Annual in March, quarterly update if Free Float Factor changes 10% or more or if the number of shares changes more than 20%.  |
| <b>Review of capping</b>                         | Annual in March. Quarterly if any constituent would weigh >18%  |
| <b>Base Currency</b>                             | Euro  |

Note: the factsheet is a summary of the rule book for information purposes only. The text of the rulebook is leading.

## Reference Data

| Index name | Isincode     | Mnemo | Bloomberg Code | Reuters code | Base date | Base value | Publication since |
|------------|--------------|-------|----------------|--------------|-----------|------------|-------------------|
| AEX®       | NL0000000107 | AEX   | AEX            | .AEX         | 03-01-83  | 45.38      | 03-01-83          |
| AEX® NR    | QS0011211156 | AEXNR | AEXNR          | .AEXNR       | 03-01-83  | 45.38      | 29-12-10          |
| AEX® GR    | QS0011131990 | AEXGR | RAEX           | .AEXGR       | 03-01-83  | 45.38      | 02-09-99          |
| AMX®       | NL0000249274 | AMX   | AMX            | .AMX         | 03-01-83  | 45.38      | 04-10-95          |
| AMX® NR    | QS0011211164 | AMXNR | AMXNR          | .AMXNR       | 03-01-83  | 45.38      | 29-12-10          |
| AMX® GR    | QS0011204763 | AMXGR | RAMX           | .AMXGR       | 03-01-83  | 45.38      | 04-10-95          |
| AScX®      | NL0000249142 | ASCX  | ASCX           | .ASCX        | 31-12-04  | 400        | 02-03-05          |
| AScX® NR   | QS0011211172 | ASCXN | ASCXN          | .ASCXN       | 31-12-04  | 400        | 29-12-10          |
| AScX® GR   | QS0011204995 | ASCXG | RASCX          | .ASCXGR      | 31-12-04  | 400        | 02-03-05          |
| AEXAT      | NL0010614491 | AEXAT | AEXAT          | AEXAT        | 31-12-04  | 400        | 09-12-13          |
| AEXAT NR   | NL0010614509 | AEXTN | AEXTN          | AEXTN        | 31-12-04  | 400        | 09-12-13          |
| AEXAT GR   | NL0010614517 | AEXTG | AEXTG          | AEXTG        | 31-12-04  | 400        | 09-12-13          |

Note: The base value of 45.38 was equal to NLG 100 at the time of creation.

### Version notes:

18-01 Change of rule 5.3.3 capping at quarterly reviews and update of governance naming

18-02 Change of definition of Free Float Factor and move of Review Cut-Off date

19-01 Change related to companies trading below €1,- ; no longer excluded by default -rule 5.2.2 adapted.

20-01 Integration of ESG Disclosures and update for ICB Classification definitions

20-02 Change of rule 5.2.1 Market of Reference eligibility

## 2. GOVERNANCE AND DISCLAIMER

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### 2.1 INDICES

This rule book applies to the following indices (hereinafter “index”) owned by Euronext N.V. or its subsidiaries (hereinafter jointly “Euronext”):

- AEX
- AMX
- AScX
- AEXAT

### 2.2 ADMINISTRATOR

Euronext Amsterdam is the Administrator of the index. All aspects of the management of the index are within the responsibility of the Administrator.

### 2.3 INDEX MANAGEMENT

Euronext Index Operations is responsible for day-to-day operational maintenance of all national and cross-border stock indexes (including sector indexes). This includes deciding on operational adjustments following corporate actions that have an impact on constituent shares and the preparation of periodical reviews according to the rules that are currently in force.

The Index Design team is responsible for the rules governing Corporate Actions and will decide in cases that require specific interpretation. For cases with significant potential impact Index Design will liaise with the Index Panel for advice. The Index Panel consists of specialists from various business lines within Euronext. Moreover Index Design is responsible for presenting periodical selections and re-weightings to the Steering Committees and developing index rules refinements whenever necessary. Index Design will hold regular meetings with Index Operation on the ongoing development of rules as well as on the results of reviews. In case of (potential) legal angles, Index Design will liaise with the legal representative in the Index Panel.

Index Design will inform and if necessary convene the Index Panel on issues that might raise questions from market participants or for which there are more viable solutions; setting precedents. The Index Panel is responsible for approving rules that do not fall under the scope of the Steering Committees.

Members of the Index Design Panel or their delegates are hands-on market experts with experience in dealing with corporate actions, knowledgeable about index rules and index design, and to have good quantitative skills. They need to have quick access to information in their own area of expertise, which may be needed to support operational decision-making. Although the members are selected as representatives of several business lines, the main assignment for the Index Panel is to take decisions in the general interest of the index and all its users.

### 2.4 INDEPENDENT SUPERVISOR

The AEX Steering Committee is appointed as independent supervisor of the index (“Supervisor”). The Supervisor is responsible for monitoring the selection of constituents for the index and ensuring that the index offers a reliable and representative view of the market. All decisions regarding supplementing, amending, revising or withdrawing these rules are submitted to the Supervisor for approval. All Supervisor decisions will be published without delay following the decision (after market close).

The AEX Steering Committee consists of independent persons. The composition and responsibilities of the AEX Steering Committee are laid down in the Rules of Procedure document that is available on the website.

### 2.5 CASES NOT COVERED IN RULES

In cases which are not expressly covered in these rules, operational adjustments will take place along the lines of the aim of the index. Operational adjustments may also take place if, in the opinion of Index Design, it is desirable to do so to maintain a fair and orderly market in derivatives on this index and/or this is in the best interests of the investors in products based on the index and/or the proper functioning of the markets. Index Design will report to the Supervisor if it took a decision about a case which is not specifically covered in the rules for comments and review.

## **2.6 RULE BOOK CHANGES**

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 index in another way. Index Design will submit all decisions regarding supplementing, amending, revising or withdrawing these rules to the Supervisor for recommendations or approval.

## **2.7 LIABILITY**

Euronext and the Supervisor are not liable for any losses resulting from supplementing, amending, revising or withdrawing the rules for the index.

Euronext will do everything within its power to ensure the accuracy of the composition, calculation, publication and adjustment of the index in accordance with relevant rules. However, neither Euronext nor the Supervisor are liable for any inaccuracy in index composition, share prices, calculations and the publication of the index, the information used for making adjustments to the index and the actual adjustments. Furthermore, Euronext and the Supervisor do not guarantee the continuity of the composition of the index, the continuity of the method of calculation of the index, the continuity of the dissemination of the index levels, and the continuity of the calculation of the index.

## **2.8 OWNERSHIP AND TRADEMARKS**

Euronext owns all intellectual and other property rights to the index, including the name, the composition and the calculation of the index. AEX®, AEX-Index®, AMX®, AMX-Index® and AScX® are registered trademarks of Euronext.

## 3. PUBLICATION

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### 3.1 DISSEMINATION OF INDEX VALUES

#### 3.1.1 Opening

The opening level is calculated using the last known prices of traded constituents or in the case of constituents that have non-traded, halted or suspended status, the previous day reference prices or estimated prices (for IPOs, buyouts and swap offers).

The official opening level is the first level published after a share price is available for all constituents. Index levels published before the official opening level is published are considered pre-opening index levels.

If, for whatever reason, share prices are not available for all constituents five minutes after Euronext Markets (as defined in the Euronext harmonised rule book) started regular daytime trading, the official opening level will be published as soon as the companies whose share prices are available of the current trading day represent at least 80% of the value of the index at the close of the previous trading day.

#### 3.1.2 Deviating opening threshold

For the AScX the minimum percentage of companies that are trading is set at 70%.

#### 3.1.3 Calculation and dissemination

The index is calculated based on the most recent prices of transactions concluded on Euronext Markets. The level of the index is in principle published every 15 seconds. The index is calculated from 09:00 hours until Euronext Markets stop regular daytime trading on the days when the Euronext Markets are open for trading.

#### 3.1.4 Closing level

The closing level is the last level disseminated on the trading day.

### 3.2 EXCEPTIONAL MARKET CONDITIONS AND CORRECTIONS

Index Operations retains the right to delay the publication of the opening level of the index. Furthermore, Index Operations retains the right to suspend the publication of the level of the index to mark the level of the index indicative if it believes that circumstances prevent the proper calculation of the index.

If prices are cancelled, the index will not be recalculated unless Index Design decides otherwise.

If the index remains in pre-opening phase during the entire trading session, the last published pre-opening level of the index will be used as the official closing level of the index for that day. In such cases, Index Operations will not calculate an official opening level for the index.

The general procedures in case of index outages and other situations in which the normal provision of indices is interrupted are described in Euronext Indices Correction Policy on [indices.euronext.com/index-rules](https://indices.euronext.com/index-rules).

### 3.3 ANNOUNCEMENT POLICY

The announcement policy is described in the Euronext Indices Announcement policy document that is available on [indices.euronext.com/index-rules](https://indices.euronext.com/index-rules).

## 4. CALCULATION

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### 4.1 CALCULATION OF THE PRICE INDEX

The index is calculated on a price return basis. The calculation is based on the current free float market capitalization divided by the divisor. The divisor was determined on the initial capitalization base of the index and the base level. The divisor is adapted as a result of corporate actions and composition changes.

### 4.2 CURRENCY CONVERSION

The base currency of the index is Euro (“Base Currency”).

Share prices that are quoted in other currencies than the Base Currency will be converted to the Base Currency using the last known exchange rate observed on Reuters. Closing prices will be converted based on the most recent WM/Reuters spot rates, which are published each business day around 17:00 CET.

### 4.3 TOTAL RETURN INDEX CALCULATION

#### 4.3.1 Return indices

A net total return index as well as a gross total return index, is calculated and disseminated at the same frequency as the price index. The return indices are obtained by reinvesting the net and gross dividends respectively.

#### 4.3.2 Withholding tax rate

The net dividend is calculated as the gross dividend minus the applicable withholding tax. A table detailing the percentages that are applied is available on the website of Euronext.

#### 4.3.3 Ordinary dividends in shares

If a dividend is distributed in the form of shares only and if this is regarded as ordinary dividend, the return index will be reinvesting a cash equivalent of the dividend. If shareholders may choose between cash or shares the amount which is reinvested will be based on the cash option.

#### 4.3.4 Conversion of dividends declared in other currencies

If a dividend for a constituent is declared in another currency than the Base Currency of the index, then in first instance the Base Currency amount will be used if investors have the option to be paid in that currency. If the dividend amount is available only in currencies that deviate from the Base Currency, the dividend amount will be converted using the reference rate for the cum-day (the business day prior to the ex-date). In principle the reference rate will be based on the foreign exchange reference rates as published daily by the ECB.



## 5. INDEX REVIEWS

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### 5.1 GENERAL AIM AND FREQUENCY OF REVIEWS

#### 5.1.1 General aim of the periodical review

The general aim of the periodical review of the index is to ensure that the selection and weighting of the constituents continues to reflect the underlying market or market segment it represents.

#### 5.1.2 Review Cut-Off Dates and Review Effective Dates

The Review Cut-Off Date (see 8. Definitions) is after the market close of the penultimate<sup>1</sup> Friday of February (for the annual review), May, August and November (for the quarterly reviews).

The Review Effective Date is after the market close of the third Friday of March (the annual review), June, September and December (quarterly reviews).

### 5.2 ELIGIBLE COMPANIES AND SELECTION

#### 5.2.1 Index universe

The universe of the index is defined as companies that have been admitted to listing on Euronext Amsterdam. Eligible companies are:

- I. Companies with Euronext Amsterdam as Market of Reference (as defined in the Euronext harmonised rule book); and
- II. Current constituent companies with a Market of Reference other than Euronext Amsterdam, that may continue to be included at each annual review based on the following criteria:
  - Business assets as percentage of total balance sheet of at least 20%, and/or,
  - head-office activities representing at least 20% and/or
  - numbers of staff in the Netherlands at least 10% of FTE.

The Supervisor will decide on the eligibility based on the analysis of Index Design.

The decisions regarding eligibility will be published on the Review Announcement Date.

#### COMPANIES THAT CHANGE THEIR MARKET OF REFERENCE

If a company changes its Market of Reference to a Market of Reference other than Euronext Amsterdam as a result of a merger or similar situation, the company will continue to be eligible for the AEX family. At each annual review, the Supervisor will decide on the continued eligibility of the new entity based on the criteria stipulated in 5.2.1 II.

A company changing the Market of Reference to a Market of Reference other than Euronext Amsterdam for other reasons will be removed from the AEX family at the annual review regardless of whether it fulfills the criteria stipulated above.

#### 5.2.2 Exclusion of constituents

The shares of the following companies are not eligible for the index:

- a. Investment instruments classified as 302040 or 302050 in conformity with the ICB classification system, as well as Investment Services classified as subsector 30202015 that do not have any business or have any assets other than future plans to obtain equity stakes;
- b. Holding companies of companies admitted to listing on Euronext Amsterdam;
- c. Companies whose shares are allocated to the Recovery Box or Penalty Bench;
- d. Shares quoted in currencies other than Euro.
- e. Shares not traded continuously.

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<sup>1</sup> Penultimate means the one immediately before the last one, so the Friday before the last Friday.

- f. Companies admitted to listing less than 30 trading days before the Review Cut-Off Date.
- g. Companies whose Free Float Factor (see 8. Definitions) is less than 15%.
- h. Other companies or institutions as determined by Index Design. When excluding companies from the AEX index family, Index Design will take into account the tradability and the settlement of the shares issued by the company in question. When determining the tradability of a company's shares, the frequency with which the shares are traded will be decisive. When settlement is assessed, the extent to which short positions can be taken and settled in a company's shares will be decisive. Also companies structurally trading below €1,- may be excluded if this is seen as a factor impeding the tradability.

### 5.2.3 Selection basis

#### RANKING

Eligible companies are ranked based on the free float adjusted market capitalization on the Review Cut-Off Date. As a rule the selection is based on the number of shares listed on the Review Cut-Off Date. The Free Float Factors applied for the selection ranking and free float velocity calculation at each review are based on the Free Float Factors on the Review Cut-Off Date.

#### LIQUIDITY SCREENING: FREE FLOAT VELOCITY

The shares of a company must have a free float velocity of at least 25% (10% for current constituents). In other words, their Regulated Trading Volume (see 8. Definitions) should represent at least 25% of the total number of listed shares times the Free Float Factor, calculated over the course of the full 12 months relevant for the review. Velocity is calculated on a daily basis by dividing the number of shares traded by the number of shares listed. These daily figures are added up to calculate the annual free float velocity. For the AScX-index the threshold is 15% (10% for current constituents).

If Regulated Trading Volume in shares for a particular company is not available for the entire period of 12 months, the velocity will be extrapolated to the entire period. When determining a share's velocity, the Regulated Trading Volume during the first twenty trading days after the company was admitted to listing will not be taken into consideration.

In the event of a spin-off, a split up or a similar corporate event, the Regulated Trading Volume before the corporate event will be assigned to the companies resulting from the corporate event based on the ratio of the corporate event. The Regulated Trading Volume will be assigned if a spun-off division is listed as an independent company.

The free float percentage that is used in the velocity calculation is based on the Free Float Factor on the Review Cut-Off Date. However, the free float percentage used in the velocity calculation shall always be at least 25%.

### 5.2.4 Selection of constituents at the annual review (in March)

Eligible companies are ranked according to free float market capitalization provided that they fulfil the minimum velocity and Free Float Factor requirements.

For the AEX-Index the 23 highest ranking companies will be selected. Furthermore the two highest ranking companies from those ranking 24<sup>th</sup> until 27<sup>th</sup> are selected whereby current constituents are preferred over companies that aren't part of the index at the moment.

For the AMX-Index the 23 highest ranking companies not included in the AEX-Index will be selected. Furthermore the two highest ranking companies from those ranking 24<sup>th</sup> until 27<sup>th</sup> are selected whereby current constituents are preferred over companies that aren't part of the index at the moment.

For the AScX-Index the 23 highest ranking companies not included in the AEX-Index or AMX-Index will be selected. Furthermore the two highest ranking companies from those ranking 24<sup>th</sup> until 27<sup>th</sup> are selected whereby current constituents are preferred over companies that aren't part of the index at the moment. If

fewer than 25 companies qualify for selection in the AScX, the index will consist of fewer than 25 companies. Companies that fail to qualify for the AEX or AMX due to their free float velocity and that are larger in terms of free float market capitalization than the 20<sup>th</sup> ranking company in the AMX will not be entered in the AScX.

The AEXAT consists of all companies included in AEX, AMX or AScX.

### **5.2.5 Selection of constituents at the quarterly reviews (in June, September and December)**

Eligible companies are ranked based on the size in terms of free float adjusted market capitalization on the Review Cut-Off Date. The ranking consists of current included eligible companies as well as newly listed companies that fulfil the minimum velocity and Free Float Factor requirements.

Newly listed companies may be added to the index at the occasion of the quarterly review if they rank 23 or higher. Newly listed companies are companies that have been admitted to listing during the current calendar year. Companies already included in the AEX family or that have been admitted earlier to another Euronext market do not qualify as newly listed companies.

If, after the possible addition of newly listed companies, the AEX consists of fewer than 25 constituents the highest ranking AMX constituent company will be added. Similarly, if the AMX consists of fewer than 25 constituents the highest ranking AScX constituent company will be added and if the AScX consists of fewer than 25 constituents the highest ranking non constituent will be added, provided that this company was eligible at the most recent annual review.

Companies that fail to qualify for the AEX or AMX due to their free float velocity and that are larger in terms of free float market capitalization than the 20<sup>th</sup> ranking company in the AMX will not be entered in the AScX.

Should the index consist of more than 25 companies after the addition of newly listed companies or due to a split up or similar situation, then the lowest ranking current constituent(s) will be selected for removal in order to bring the number of constituents down to 25. Constituents removed from the AEX will be included in the AMX or AScX provided that they are still eligible. Constituents removed from the AMX will be included in the AScX provided that they are still eligible. Such inclusion in the AMX or AScX may lead to removal of the lowest ranking constituent in order to bring the number down to 25.

The AEXAT consists of all companies included in AEX, AMX or AScX.

### **5.2.6 Selected line**

As only one listing – the most active one - is permitted per company, the listing representing the company's ordinary shares is generally used.

## **5.3 PERIODICAL UPDATE OF WEIGHTING**

### **5.3.1 Update of number of shares and Free Float Factors at the annual review**

At annual reviews, the number of shares included in the index will be updated with the number of shares listed on the Review Cut-Off Date, taking into account adjustments due to Corporate Actions as described in Chapter 6.

All Free Float Factors are updated at the annual review.

### **5.3.2 Update of number of shares and Free Float Factors at the quarterly reviews**

At quarterly reviews, both the number of shares included in the index and the Free Float Factor will be updated if the Free Float Factor on the Review Cut-Off date deviates by 10% or more from the Free Float Factor currently applied in the index (2 or more bands) and/or if the number of shares listed on the Review Cut-Off Date, deviates by more than 20% from the current number of shares included in the index.

In the case of an update the new numbers of shares are based on the number of shares listed on the Review Cut-Off Date, taking into account adjustments due to Corporate Actions as described in Chapter 6.

Index Design may decide not to update the number of shares for companies after a merger or similar situation.

In the case where the free float adjusted number of shares changes for companies with a capping factor less than 1, the capping factor will be recalculated such that the capped free float adjusted number of shares remains unchanged at the quarterly review.

### **5.3.3 Capping**

A maximum weighting of 15% is applied to each index constituent at the annual review. The assessment and new capping coefficients are based on the Review Composition Announcement Date. If any of the constituents would weigh over 18% after a quarterly review, the maximum weighting of 15% will also be applied to each index constituent at the quarterly review.

### **5.3.4 Companies added at the quarterly review**

For companies, if any, to be added to an index at the quarterly review, the weightings in terms of number of shares in the index and Free Float Factor are determined based on the Review Cut-Off Date, while the capping factor is determined based on the Review Composition Announcement Date. The weight of companies that are added is subject to a maximum of 15%.

## **5.4 ADJUSTMENTS TO THE OUTCOME OF THE REVIEW**

In the event of a takeover or other exceptional circumstances, the Supervisor has the right to revise the selection from the time the announcement is published up to the Review Composition Announcement Date.

The Supervisor will not change the outcome of the review for events that happen after the Review Composition Announcement Date. Corporate actions happening before the Review Effective Date will lead to an update of the new composition that is in line with the treatment according to chapter 6.

## 6. CORPORATE ACTIONS

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### 6.1 GENERAL

The index may be adjusted in order to maintain the continuity of the index level and the composition. The underlying aim is that the index continues to reflect as closely as possible the value of the underlying portfolio.

Adjustments take place in reaction to events that occur with constituents in order to mitigate or eliminate the effect of that event on the index.

### 6.2 REMOVAL OF CONSTITUENTS

A constituent will be removed from the index if it has appeared that the liquid trading will be significantly affected due to a takeover, merger, bankruptcy or similar situations. In case of a takeover that is paid primarily in shares the constituent may be replaced by the acquiring company.

If a company is removed from the index, the divisor will be adapted to maintain the index level.

#### 6.2.1 Mergers and acquisitions

If a constituent is subject to a takeover offer, a merger, an acquisition, liquidation, bankruptcy filing or a similar situation or has in the opinion of Index Design ceased to be a viable constituent as defined by the rules, the constituent in question will either be removed or will be replaced by the acquiring company.

Replacement will occur provided that the bid is paid in shares and that the acquiring company meets the inclusion criteria of the index. In case of a mixed bid of cash and shares Index Design will treat the bid as a share bid if the share part amounts to at least 75% of the offer price, on the day of the publication of the terms of the offer. The replacement of the shares of the relevant index constituent by the shares of the company that continues to be traded will be executed on the basis of the bid ratio. The divisor will be adapted only for the cash part of the offer price.

The removal or replacement will take place with effect from the first business day following the acceptance of the bid provided that the acceptance has been made public before the close of regular daytime trading on Euronext Markets.

Index Design retains the right to impose additional conditions for removal if after the acceptance of the bid the Free Float remains higher than 25% or if the Free Float market capitalization of the constituent in question exceeds the smallest other current constituent of the index in terms of Free Float market capitalization.

#### 6.2.2 Suspensions and delistings

If a constituent is suspended, Index Design will consider whether the constituent should be removed or not within five trading days. If it is decided to maintain the constituent a further reassessment date will be set. Index Design reserves the right to take action before that date if new developments give reason to do so.

In case a constituent is removed following suspension, it will be removed from the index as soon as possible and on a day announced by Index Design. The company will be removed from the index after the close of the markets assuming a price of zero unless Index Design sets a different price, where possible supported by an objective source.

If it has been announced that a constituent will be delisted from Euronext, it will be removed from the index as soon as possible and on a day determined by Index Design. The company will be removed from the index based on either the last known price established during regular daytime trading or on a price determined by Index Design, whereby the company may also be removed at a price of zero.

Removing assuming a price of zero implies no divisor change because of the removal. If another price is set, the divisor will change based on the removal of the value of that company from the index portfolio when applying that price.

### 6.2.3 Pricing sources

In the event that the trading in shares is suspended, the last known price established during regular daytime trading will be used.

### 6.3 SPLIT UP / SPIN-OFF

In the event that a company included in the index is split up, the companies resulting from the split, including the original company where appropriate will continue to be included in the index providing they still qualify as an eligible company in their own right. The index may then temporarily consist of fewer than, or more than its standard number of constituents until the next periodical review takes place.

For the purposes of these rules a split up is taken to mean a legal demerger, a spin-off or another situation which Index Design deems to be similar.

In case the shareholder of the company which was originally included in the index does not automatically receive shares in a company which is created as a result of the split up, this company is considered to be a newly listed company.

The removal of any non-qualifying company resulting from a split up will take place after the close of the first day of trading in the shares of that company. If all companies resulting from the split are to be removed, the removal will take place at the close of the last trading day before the split.

### 6.4 EARLY INCLUSION OF NON-CONSTITUENTS

As a rule newly listed companies are considered for inclusion in the index at the time of the periodical index rebalancing.

### 6.5 DIVIDENDS

#### 6.5.1 Distinction ordinary and special dividend

The price index will be adjusted for dividends that are special.

The following criteria will be applied to decide whether a dividend should be considered a special dividend:

- a) The declaration of a company of a dividend additional to those dividends declared as part of the company's normal results and dividend reporting cycle; merely an adjustment to the timing of the declaration of a company's expected dividend would not be considered as a special dividend circumstance; or
- b) The identification of an element of a dividend paid in line with a company's normal results and dividend reporting cycle as an element that is unambiguously additional to the company's normal payment.

For the purpose of clarification, no adjustment will be made for the following situations:

1. Payment of ordinary dividends, irrespective of how they are financed;
2. Issue of redeemable shares or any other entitlement in lieu of an ordinary dividend; or
3. Unexpected increase or decrease, resumption or cessation, or change in frequency to an ordinary dividend.

#### 6.5.2 Adjustment for special dividend

The adjustment of the index takes place by a reduction of the closing price of the share in question. Subsequently the divisor will be adapted in order to maintain the index level. The adjustments will be based on gross amounts.

### 6.6 RIGHTS ISSUES AND OTHER RIGHTS

In the event of a rights issue the new shares will be included in the index on the ex-date of the rights issue and an adjusted closing price will be applied as calculated by Index Operations. The adjustment will be made based on the shares currently in the index. The divisor will be adapted in such a way that the level of the index remains the same.

The new shares are only added if less than 0.4 share is issued for every share that is currently held and if the new shares are fungible with the existing line of shares (e.g. no dividend disadvantage). Otherwise the index is adjusted based on the value of the rights only.

The index will be adjusted only if the rights represent a positive value.

The index will also be adjusted if a value can be attributed to a subscription right for convertible bonds, bonds with warrants or warrants with preferential rights for shareholders or similar situations.

#### **6.7 BONUS ISSUES, STOCK SPLITS AND REVERSE STOCK SPLITS**

For bonus issues, stock splits and reverse stock splits, the number of shares included in the index will be adjusted in accordance with the ratio given in the corporate action. The divisor will not be changed because of this. Index Design may regard a bonus issue as the issue of an entitlement in lieu of an ordinary dividend and therefore treat this in accordance with 6.5.1.

#### **6.8 CHANGES IN NUMBER OF SHARES OR FREE FLOAT FACTORS**

In between the reviews the number of shares included in the index and Free Float Factors will remain unchanged.

## 7. INDEX CALCULATION FORMULAS

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The general formula for the **price index** is:

$$I_t = \frac{\sum_{i=1}^N Q_{i,t} F_{i,t} f_{i,t} C_{i,t} X_{i,t}}{d_t}$$

Where:

- t Time of calculation
- N Number of constituent equities in index
- $Q_{i,t}$  Number of shares of equity i included in the index on day t
- $F_{i,t}$  Free Float Factor of equity i <sup>2</sup>
- $f_{i,t}$  Capping factor of equity i <sup>1</sup>
- $C_{i,t}$  Price of equity i on t
- $X_{i,t}$  Current exchange rate on t <sup>1</sup>
- $d_t$  Divisor of the index on day t

The **total return index** calculation takes two steps: the first step is to transpose the announced dividend payment into index points. This is called the XD adjustment. This uses the following formula:

$$\text{XD adjustment} = \sum_{i=1}^N \frac{g_i * w_i}{d}$$

Where:

- N Number of constituent equities in index
- $g_i$  The announced dividend per share of the  $i^{\text{th}}$  component stock (for net return index withholding tax is deducted from this dividend);
- $w_i$  The weighting of the  $i^{\text{th}}$  component stock in the index, based on number of shares included in the index, Free Float factor, capping factor and exchange rate;
- d Divisor of the index.

The second step of the calculation uses the figures calculated in step one (XD adjustment). The dividend is assumed to be reinvested at the close of the ex-date.

$$\text{TR}_t = \text{TR}_{t-1} \left( \frac{\text{IV}_t + \text{XD}}{\text{IV}_{t-1}} \right)$$

Where:

- $\text{TR}_{t-1}$ : Total return index value yesterday;
- $\text{TR}_t$ : Total return index value on t;
- $\text{IV}_{t-1}$ : Underlying price index yesterday;
- $\text{IV}_t$ : Underlying price index on t;

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<sup>2</sup> Factor is equal to 1 if not applied for the index



## 8. DEFINITIONS

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### 8.1 FREE FLOAT FACTOR

The Free Float Factor is the percentage representing all listed securities of the selected line of the relevant company eligible for index inclusion (as described in section 5.2), minus any shareholdings that are considered non-free float. The Free Float Factor is based on public information available on the Review Cut-Off Date. The Free Float Factor will be rounded to the nearest 5%.

The following shareholdings are considered non-free float (based on public information available on the Review Cut-Off Date):

- Any single shareholder who holds 5% or more of the listed securities in the selected line eligible for index inclusion, with the exception of collective entities or pension funds.

Collective entities are those entities that fulfill all the following criteria:

- i. are open for investment to investors or tradable on the market; and
- ii. have a diversified portfolio; and
- iii. have an open ended structure.

Collective entities include mutual funds and other open end-funds.

- Collective entities or pension funds that hold 5% or more of the listed securities in the selected line eligible for index inclusion and are represented in any governing body of the company in question.
- Parties acting in concert that collectively hold 5% or more of the listed securities in the selected line eligible for index inclusion.
- Employee shareholding plans, employee pension plans, individual employees, management or members of the board of directors of the relevant company when their cumulative shareholding is 5% or more of the listed securities in the selected line eligible for index inclusion.
- Shares held by the relevant company that represent 5% or more of the listed securities in the selected line eligible for index inclusion (e.g. treasury shares).

### 8.2 REVIEW RELEVANT DATES

The **Review Cut-Off Date** is the date on which, after the market close, relevant data are gathered that will serve as basis for the periodical review of the index.

The **Review Announcement Date** is the date on which, after the market close, the changes relating to the periodical review are announced as well as the preliminary Free Float Factors.

The **Review Effective Date** is the date on which, after the market close, the changes relating to the periodical review are being effectuated in the index portfolio.

The **Review Composition Announcement Date** is the date on which, after the close, the full details are announced regarding the index composition that will come into effect after the review effective date. This includes numbers of shares, Free Float Factors and capping factors of all companies included in the new index portfolio.

### 8.3 REGULATED TURNOVER AND REGULATED TRADING VOLUME

Regulated Turnover consists of value of turnover traded via the Euronext electronic order book as well as the value of turnover from off-exchange transactions within the scope of Euronext's regulatory environment, such as block trades and the like.

## 9. ESG DISCLOSURES

| EXPLANATION OF HOW ESG FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY  |                             |
|--|-----------------------------|
| Item 1. Name of the benchmark administrator.   | Euronext Amsterdam          |
| Item 2. Type of benchmark  | Equity Benchmark            |
| Item 3. Name of the benchmark or family of benchmarks.   | AEX                         |
| Item 4. Does the benchmark methodology for the benchmark or family of benchmarks take into account ESG factors?  | No                          |
| Item 5. If the response to Item 4 is positive, please find below the ESG factors that are taken into account in the benchmark methodology and how they are used for selection, weighting and exclusion                                     |                             |
| a) List of environmental factors considered:   | Not applicable              |
| b) List of social factors considered:  | Not applicable              |
| c) List of governance factors considered:  | Not applicable              |
| Item 6. Data and standards used.   |                             |
| a) Data input.<br><i>(i) Describe whether the data are reported, modelled or, sourced internally or externally.</i><br><i>(ii) Where the data are reported, modelled or sourced externally, please name the third party data provider.</i> | Not applicable              |
| b) Verification of data and guaranteeing the quality of those data.<br><i>Describe how data are verified and how the quality of those data is ensured.</i>   | Not applicable              |
| c) Reference standards<br><i>Describe the international standards used in the benchmark methodology.</i>   | Not applicable              |
| Information updated on:  | 30 <sup>th</sup> April 2020 |