INDEX RULE BOOK

Euronext® Transatlantic PAB 50 10% Cap

Version 25-01
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indices.euronext.com

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1. GENERAL

This document is applicable to the Euronext® Transatlantic PAB 50 10% Cap ("Index Family"), which consists of all the Indices as mentioned in the Reference Table.

The Index Family is designed to reflect the price level trends in the trading of shares listed in the Eurozone and USA ("Parent index").

Euronext Paris is the Administrator of this Index Family. The Expert Committee acts as Independent Supervisor of the Index Family.

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VERSION NOTES

Version	Effective date	New or changed parts	Reference/announcement
25-01	18-09-2025	Initial rulebook	

2. **INDEX REVIEWS**

2.1 **REVIEW FREQUENCY AND RELEVANT DATES**

Review frequency: Annual

Review Effective

Date:

After the market close of the third Friday of December.

Review Cut-Off

Date:

After the market close of the penultimate Friday of November.

Review

Announcement

Date:

At least five trading days before the Review Effective Date.

Review Weighting

Date:

Three trading days before the Review Effective Date.

Review Weighting

Announcement

Two trading days before the Review Effective Date.

Date:

2.2 **INDEX METHODOLOGY PRINCIPLES**

2.2.1 General Methodology Objectives

The Index seeks compliance with Paris Aligned Benchmark (PAB) objectives.

The Index targets 50 constituents after exclusion process. Compliance with PAB is aimed to via weight adjustments following core selection and preliminary weights.

The weights are constructed using an optimization process that aims to achieve the PAB decarbonization objectives while minimizing the weights' deviation relative to the Free Float Market Cap (FFMC) weights. (Cf section 2.5 for further details)

2.2.2 Data Partner

Sustainalytics provides datapoints related to Controversies, activity involvement and carbon intensity.

2.2.3 Climate Impact sections

Grouping of companies based on NACE section classification (Annex I to EC Regulation No 1893/006) into two sections:

- High Climate Impact section
 - NACE Sections A to H and Section L
- Low Climate Impact section
 - NACE Section that are not part of the High Climate Impact section

NACE Section	NACE Section Name	Climate Impact Section Group
Α	AGRICULTURE, FORESTRY AND FISHING	High
В	MINING AND QUARRYING	High
С	MANUFACTURING	High

D	ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLIES	High
E	WATER SUPPLY; SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES	High
F	CONSTRUCTION	High
G	WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	High
Н	TRANSPORTATION AND STORAGE	High
I	ACCOMMODATION AND FOOD SERVICE ACTIVITIES	Low
J	INFORMATION AND COMMUNICATION	Low
K	FINANCIAL AND INSURANCE ACTIVITIES	Low
L	REAL ESTATE ACTIVITIES	High
М	PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	Low
N	ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIE	Low
0	PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY	Low
Р	EDUCATION	Low
Q	HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	Low
R	ARTS, ENTERTAINMENT AND RECREATION	Low
S	OTHER SERVICE ACTIVITIES	Low
Т	ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS- AND SERVICES-PRODUCING ACTIVITIES OF HOUSEHOLDS FOR OWN USE	Low
U	ACTIVITIES OF EXTRATERRITORIAL ORGANISATIONS AND BODIES	Low
	•	

2.3 REVIEW SELECTION

Step 1: Index Universe

The Index Universe consists of the Companies included in the Euronext Eurozone 300 index and Euronext North America 500 index (excluding companies listed on the Toronto Stock Exchange XTSE).

At reviews this means included in the Index after the Review Effective Date.

Step 2: Eligibility screening at reviews

Companies are ranked on their Free Float Market Capitalization on the Review Cut-Off Date.

The 100 highest ranking Companies are eligible (50 highest in the USA, 50 highest in the Eurozone).

The list of Constituents is reduced by a series of screens. The Companies with any of the following characteristics are excluded:

- Constituents with a 3-months Average Daily Traded Value lower than 10 Million EUR.
- Companies that don't have Carbon Emission Data.

• Global Standards Screening:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Overall Global Compact Compliance Status	Flagged "Non-compliant"	311910122899

Controversial weapons:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Tailor-made and essential controversial weapons	Any involvement	171611102999

Non tailor-made or non-essential controversial weapons	Any involvement	171613102999
controversial weapons		

• Tobacco:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Tobacco Products Production	Any involvement	172911112999

• Thermal Coal:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Thermal Coal Extraction + Thermal Coal Supporting Products/Services	Sum of both > 0%	171025111199 171025291199

• Oil & Gas Exploration or processing:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Oil & Gas Production + Oil & Gas	Derived revenue >= 10%	171114111199
Supporting Products/Services		171114171199

Power Generation:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Thermal Coal Power Generation + Oil & Gas Generation	Sum of both >= 50%	171025141199 171114141199

Animal Testing:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Animal Testing Pharmaceutical products-Category of Involvement Id	Flagged "AT1 "	171411102999
Animal Testing Non- pharmaceutical products- Category of Involvement Id	Flagged "AT4"	171415102999

GMO:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
E.3.1.9 GMO Policy-Weighted Score-Consolidated-RR	Score < 100	181268702099
Genetically Modified Plants and Seeds Overall-Revenue Percentage	Derived revenue > 0%	171016181199

Environmental objectives:

Exclusion topic	Exclusion criteria	Sustainalytics Field Id
Carbon Impact of Products-Answer category	Categories 4 and 5	134011112599
Emissions, Effluents and Waste-Answer category	Categories 4 and 5	132111112599
Energy Use and GHG Emissions-Answer category	Categories 4 and 5	132211112599
Environmental Impact of Products-Answer category	Categories 4 and 5	132311112599
Land Use and Biodiversity-Answer category	Categories 4 and 5	132811112599
Water Use-Answer category	Categories 4 and 5	133811112599

Step 3: Selection Ranking

Eligible Companies are ranked by ascending order on the ESG Score (ESG Risk Score) as assigned by Sustainalytics. In case of an equal score the Company with the highest free float market Capitalisation will rank higher.

Step 4: Selection of constituents at the reviews

The 50 highest ranking Companies are selected (25 highest in the USA, 25 highest in the Eurozone).

2.4 PERIODICAL WEIGHTING UPDATE

Weighting method

The Index is Non-Market Capitalization weighted, based on an optimization approach.

The Weighting Factors are explained in the following paragraphs.

Number of shares

The Number of Shares are calculated such that each constituent will have the weight in accordance with the outcome of the weighting procedure detailed in 2.5.

The Number Of Shares are determined based on the closing prices of the Constituents to be included in the Index on the Review Weighting Date.

Free Float factor

The Free Float Factor is not applicable for this Index Family.

Capping Factor

The Capping Factor is technically set at 1, per-stock caps and other capping mechanisms are part of the weight optimization and therefore taken into account when calculating the final Constituents weights and the derived number of shares; Cf section 2.5.2.

2.5 WEIGHT CALCULATION

2.5.1 Decarbonization objectives

2.5.1.1 Carbon Intensity calculation

Euronext will calculate the Carbon Intensity (CI) for each of the Constituents in the Index as well as for each Constituents in the Index Starting Universe.

The Carbon intensities are calculated as follows:

$$CI = \frac{Sum \text{ of Emissions}}{Enterprise \text{ Value including Cash}}$$

- Emissions are Scope 1+2+3 carbon emission, provided by Sustainalytics¹
- o Enterprise Value including Cash = Market capitalization + Debt
- For Index:

Stock-level weighted CI = CI * Index weight²

• For Index Investable Universe:

Stock-level weighted CI = CI * FFMC weight³

The Weighted Average Carbon Intensity (WACI) of the Index and the Index Starting Universe are established as follows:

WACI of Portfolio = ∑Stock-level weighted CI

2.5.1.2 Decarbonization targets

The target metric for decarbonization objectives is the WACI. The following two objectives need to be respected at the same time – they form the **PAB Double Cap**.

i) Carbon Intensity reduction of the Index vs the Index Starting Universe of at least 50%

 The WACI of the Index each year will be compared to the WACI of the Index Starting Universe

ii) Year-on-year self-decarbonization trajectory of the Index4

• During the review in base year Euronext will calculate the WACI of the Index and calculate a decreasing trajectory of carbon intensity target for future years, with 7% annual geometrical decrease as below:

$$WACI_{T+1} \le (1 - 0.07) * WACI_{T}$$

This self-decarbonization trajectory will be made public

Ex: Index WACI Trajectory Trajectory Formula
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¹ In case Sustainalytics does not provide Carbon Emissions then the carbon intensity is calculated as the median of the ICB Supersector carbon intensities.

 $^{^{\}rm 2}$ The calculation of the Index Weights are described in the section 2.5.2

³ Free Float Market Cap Weights of the components in the index starting universe

⁴ Trajectory calculation only applicable since the publication of the Index

Base Year T	1000	WACIT
Year T+1	930	(1 − 0.07) * WACI _T
Year T+2	864.9	(1 - 0.07) ² * WACI _T

The base date and level of the carbon intensity for the Euronext Transatlantic PAB 50 10% Cap are the following:

Base date of Carbon intensity	Carbon intensity
18/11/2024	226.45

2.5.2 Weight adjustments to achieve decarbonization objectives:

The index weights are constructed using an optimization process that aims to achieve the decarbonization objectives while minimizing the weights' deviation from the Free Float Market Cap Weights (Weight $_{\text{FFMC}}$).

The objective function to minimize is the following:

$$f(w_1, w_2, ..., w_p) = \sum_{i=1}^{p} (w_i - w_i^{FFMC})^2$$

With:

- w_i = Weight of constituent i in the portfolio
- w_i^{FFMC} = Free Float Market Cap Weight of constituent i in the portfolio
- P = Number of constituents in the portfolio

The constraints imposed are the following:

- All weights are positive and sum to 1
- US stocks weights sum is capped to 50%
- All weights are capped at 10%.
- High Stake NACE Section weight in the Index ≥ High Stake NACE Section weight in the Index Starting Universe
- Minimum reduction in WACI relative to Parent index of 50% (Scope 1+2+3)⁵
- Minimum average reduction (per annum) in WACI relative to WACI at the base year of 7%
- The weight in the Index should satisfy the two below inequalities:

$$\circ \quad \left\{ \frac{\text{Weight}_{\text{FFMC}}}{\text{factor}} \leq \text{Weight in the Index} \leq \text{Weight}_{\text{FFMC}} \times \text{factor} \right.$$

The initial value of the factors is 2

⁵ An additional constraint that maximizes the WACI reduction relative to Index Starting Universe at 40% was used in the backtested Index

During the annual Index review, in the event that there is no optimal solution that satisfies all the optimization constraints, the following constraints will be alternatively relaxed, until an optimal solution is found:

• Relax the factor in steps of 1 up to a maximum factor of 20

In the event that no optimal solution is found after all constraint relaxations are exhausted, the relevant Index will not be rebalanced for that Annual Index Review.

3. REFERENCES

Index name	Isin code	Mnemo	Bloomberg Code	Reuters code	Base date	Base value	Publication since	Index Type
Euronext Transatlantic PAB 50 10% Cap	FRCLIM000551	TP1CP	TRPAB1P	.TP1CP	01/01/2010	1000	18/02/2025	Price Return
Euronext Transatlantic PAB 50 10% Cap NR	FRCLIM000569	TP1CN	TRPAB1N	.TP1CN	01/01/2010	1000	18/02/2025	Net Return
Euronext Transatlantic PAB 50 10% Cap GR	FRCLIM000577	TP1CG	TRPAB1G	.TP1CG	01/01/2010	1000	18/02/2025	Gross Return
Euronext Transatlantic PAB 50 10% Cap Decrement 5%	FRCLIM000585	TP1CD	TRPAB10	.TP1CD	01/01/2010	1000	18/02/2025	Decrement 5% on Net Return
Euronext Transatlantic PAB 50 10% Cap Decrement 50 Point	FRCLIM000593	TP1D5	TRPAB10P	.TP1D5	10/02/2025	950	18/02/2025	Decrement 50 Points on Gross Return

3.1 BASE CURRENCY

The Base Currency of this index family is Euro.

3.2 PUBLICATION

The opening index level is disseminated at the same time as the first index level. The index is calculated based on the most recent prices of transactions concluded on the relevant markets. The level of the index is in principle published every 15 seconds. The index is calculated from 09:00 hours until US Markets stop regular daytime trading on the days when the Euronext Markets are open for trading.

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

4. ESG DISCLOSURES

	REFLECTED IN THE KEY ELEMENTS OF THE METHODOLOGY
Item 1. Name of the benchmark administrator.	Euronext Paris
Item 2. Type of benchmark	Equity Benchmark
Item 3 . Name of the benchmark or family of benchmarks.	Euronext Transatlantic PAB 50 10% Cap
Item 4 . Does the benchmark methodology for the benchmark or family of benchmarks take into account ESG factors?	Yes
	please find below the ESG factors that are taken I how they are used for selection, weighting and
a) List of combined ESG factors	
b) List of environmental factors considered:	Exclusions:
	- Carbon Intensity
	- Overall Global Compact Compliance Status
	- Thermal Coal Extraction
	- Thermal Coal Supporting Products/Services
	- Oil & Gas Production
	- Oil & Gas Supporting Products/Services
	- Oil & Gas Generation
	Thermal Coal Power Generation
	- Risk ESG Score
c) List of social factors considered:	- Overall Global Compact Compliance Status
	- Genetically Modified Plants and Seeds
	- Animal Testing Pharmaceutical
	- Animal Testing Non-pharmaceutical
	 Carbon Impact of Products-Answer category
	 Emissions, Effluents and Waste-Answer category
	 Energy Use and GHG Emissions-Answer category
	 Environmental Impact of Products- Answer category

	Land Use and Biodiversity-Answer categoryWater Use-Answer category		
d) List of governance factors considered:	- Overall Global Compact Compliance Status		
	 Controversial Weapons Tailor-made and essential 		
	 Controversial Weapons Non tailor-mac or non-essential 		
	- Tobacco Products Production		

Item 6. Data and standards used.

a) Data input.

- (i) Describe whether the data are reported, modelled or, sourced internally or externally.
- (ii) Where the data are reported, modelled or sourced externally, please name the third party data provider.

Sustainalytics provides:

EGG Risk Score

The company's overall score in the ESG Risk Rating. It applies the concept of risk decomposition to derive the level of unmanaged risk for a company, which is assigned to one of five risk categories. The score ranges from 0 and 100, with 0 indicating that risks have been fully managed (no unmanaged ESG risks) and 100 indicating the highest level of unmanaged risk. It is calculated as the difference between a company's overall exposure score and its overall managed risk score, or alternatively by adding the Corporate Governance unmanaged risk score to the sum of the company's issue unmanaged risk scores.

Carbon - Total Emissions Scope 1,2&3

CALCULATED DATA: Scope1 + Scope2 + Scope 3 emissions. In metric tonneCo2e

Overall Global Compact Compliance Status

Field indicating the overall Global Compact Compliance status.

• Thermal Coal Extraction

The % share of total revenue coming from Product involvement

• Thermal Coal Supporting Products/Services

The % share of total revenue coming from Product involvement

Oil & Gas Production

The % share of total revenue coming from Product involvement

Oil & Gas Supporting Products/Services

The % share of total revenue coming from Product involvement

Oil & Gas Generation

The % share of total revenue coming from Product involvement

• Thermal Coal Power Generation

The % share of total revenue coming from Product involvement

• Controversial Weapons Tailor-made and essential

Category of involvement ID for the indicator

Controversial Weapons Non tailor-made or nonessential

Category of involvement ID for the indicator

• Tobacco Products Production

Level of involvement (revenue range) ID for the indicator

• Carbon Impact of Products-Answer category

The score that corresponds to the indicator answer category selected by the analyst during indicator research. Raw scores range from 0 to 5, where 1 is low, 2 is moderate, 3 is significant, 4 is high, 5 is severe.

• Emissions, Effluents and Waste-Answer category

The score that corresponds to the indicator answer category selected by the analyst during indicator research. Raw scores range from 0 to 5, where 1 is low, 2 is moderate, 3 is significant, 4 is high, 5 is severe.

Energy Use and GHG Emissions-Answer category

The score that corresponds to the indicator answer category selected by the analyst during indicator research. Raw scores range from 0 to 5, where 1 is low, 2 is moderate, 3 is significant, 4 is high, 5 is severe.

• Environmental Impact of Products-Answer category

The score that corresponds to the indicator answer category selected by the analyst during indicator research. Raw scores range from 0 to 5, where 1 is low, 2 is moderate, 3 is significant, 4 is high, 5 is severe.

• Land Use and Biodiversity-Answer category

The score that corresponds to the indicator answer category selected by the analyst during indicator research. Raw scores range from 0 to 5, where 1 is low, 2 is moderate, 3 is significant, 4 is high, 5 is severe.

Water Use-Answer category

The score that corresponds to the indicator answer category selected by the analyst during indicator research. Raw scores range from 0 to 5, where 1 is low, 2 is moderate, 3 is significant, 4 is high, 5 is severe.

Animal Testing Pharmaceutical products-Category of Involvement Id

Category of involvement ID for the indicator

 Animal Testing Non-pharmaceutical products-Category of Involvement Id

Category of involvement ID for the indicator

• E.3.1.9 GMO Policy-Weighted Score-Consolidated-RR

The total weighted score contribution of a management indicator as it relates to a company's overall management score. It is calculated by summing the "Management Indicator Weighted Score-Overall" for every occurence of the indicator under all relevant issues to arrive at the final consolidated, or absolute, weighted score of an indicator in the risk rating for a company. Not linked to a specific material ESG issue.

Genetically Modified Plants and Seeds Overall-Revenue Percentage

The total (aggregated) revenue percentage of involvement in all categories of this PI area.

b) Verification of data and guaranteeing the quality of those data.

Describe how data are verified and how the quality of those data is ensured.

Sustainalytics:

Data Quality

- Operational Management: Business processes and tools are in place for universe maintenance, research planning, monitoring of timely publication and tracking of production targets.

Productivity Tools: Our internal research platforms and databases are continuously enhanced to ensure research data integrity as well as efficient data collection and processing.

- Data Management: Systems are in place for the periodic collection and verification of non-research data (e.g. company identifiers) and ensuring the integrity of all data points from backend to front-end.
- Automated end-of-gate quality checks: Daily automated quality control systems are in place to ensure the accuracy and integrity of ESG Ratings pre-publication, flagging outliers and unusual patterns to avoid unwarranted rating volatility.
- Data Delivery Systems: Our online client portal (Global Access) and data services are maintained daily and continuously improved to give a comprehensive and accurate representation of our products.
- Data Deliverables: Automated and manual quality assurance checks are run on all periodic and on-off custom client deliverables.

Product/Service Quality

- Research Product Innovation: As we continuously expand and improve our offering, the client impact of any structural product changes is thoroughly assessed prior to implementation.
- Service Innovation: As we continuously expand and improve our digital services to clients, any new features are thoroughly tested before being released to clients.
- New Product Launches: A well-defined Stage-Gate process has been put in place to carefully manage product launches and ensure quality, at the launch and beyond.

c) Reference standards

Describe the international standards used in the benchmark methodology.

Sustainalytics:

Through our norms based screening, Global Standard Screening, we cover a broad range of international norms and standards including; UN Global Compact Principles (UNGC), UN Guiding Principles on Business and Human Rights (UNGPs), OECD Guidelines for Multinational Enterprises and Related Conventions

Information updated on:

September 2025