

# **S&P/ASX Buywrite Index** *Methodology*

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# Table of Contents

Introduction	2
<b>Index Objective</b>	<b>2</b>
<b>Supporting Documents</b>	<b>2</b>
Index Construction	3
<b>Approaches</b>	<b>3</b>
<b>Index Calculations</b>	<b>3</b>
Index Maintenance	5
<b>Rebalancing</b>	<b>5</b>
<b>Currency of Calculation and Additional Index Return Series</b>	<b>5</b>
<b>Base Date and History Availability</b>	<b>5</b>
Index Governance	6
<b>Index Committee</b>	<b>6</b>
Index Policy	7
<b>Holiday Schedule</b>	<b>7</b>
<b>Unexpected Exchange Closures</b>	<b>7</b>
<b>Recalculation Policy</b>	<b>7</b>
<b>Contact Information</b>	<b>7</b>
Index Dissemination	8
<b>Tickers</b>	<b>8</b>
<b>Index Data</b>	<b>8</b>
<b>Web site</b>	<b>8</b>
Appendix I	9
<b>Methodology Changes</b>	<b>9</b>
Disclaimer	10
<b>Performance Disclosure/Back-Tested Data</b>	<b>10</b>
<b>Intellectual Property Notices/Disclaimer</b>	<b>11</b>
<b>ESG Indices Disclaimer</b>	<b>13</b>

# Introduction

## Index Objective

The S&P/ASX Buywrite Index (XBW) measures the total return of a long position in the S&P/ASX 200 and a short position in a quarterly S&P/ASX 200 call option.

For information on the S&P/ASX 200, please refer to the S&P/ASX Australian Indices Methodology, available on our website at [www.spglobal.com/spdji](http://www.spglobal.com/spdji).

## Supporting Documents

This methodology is meant to be read in conjunction with supporting documents providing greater detail with respect to the policies, procedures and calculations described herein. References throughout the methodology direct the reader to the relevant supporting document for further information on a specific topic. The list of the main supplemental documents for this methodology and the hyperlinks to those documents is as follows:

Supporting Document	URL
S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology	<a href="#">Equity Indices Policies &amp; Practices</a>
S&P Dow Jones Indices' Commodities Indices Policies & Practices Methodology	<a href="#">Commodities Indices Policies &amp; Practices</a>
S&P Dow Jones Indices' Option Indices Policies & Practices Methodology	<a href="#">Options Indices Policies &amp; Practices Methodology</a>
S&P Dow Jones Indices' Commodities Index Mathematics Methodology	<a href="#">Index Mathematics Methodology</a>

This methodology was created by S&P Dow Jones Indices to achieve the aforementioned objective of measuring the underlying interest of each index governed by this methodology document. Any changes to or deviations from this methodology are made in the sole judgment and discretion of S&P Dow Jones Indices so that the index continues to achieve its objective.

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# Index Construction

## Approaches

The call option is initiated on the business day prior to the option expiration day of each quarter (a Roll Date) and held to the next Roll Date. The expiring call option is bought back at the Time-weighted Average Price (TWAP) ask price between 4:20 pm and 4:25 pm Sydney time.

Simultaneously, a new at-the-money call option expiring in the next quarter is then deemed written, or sold, a transaction commonly referred to as a “roll.” The strike price of the new call option is the S&P/ASX 200 call option with the closest strike price at or above the closing value of the S&P/ASX 200. Once the strike price of the new call option is identified, the new call option is deemed sold at the TWAP bid price between 4:20 pm and 4:25 pm Sydney time.

The long S&P/ASX 200 component and the short call option component are held in almost equal notional amounts (i.e., the short position in the call option is “covered” by the long S&P/ASX 200 component).

The premium generated from the writing of the call options is reinvested in the equity on the next business day at the Opening Price Index Calculation (OPIC) level.

Dividends paid by stocks in the S&P/ASX 200 are reinvested in the equity as defined in S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.

*For more information on OPIC (also known as Special Opening Quotation, or ‘SOQ’), please refer to S&P Dow Jones Indices’ Index Mathematics Methodology.*

## Index Calculations

On any business day  $t$ , the index calculates as follows:

$$XBW_t = \text{Max} (0, \text{Equity}_t - \text{Call}_t + \text{Cash}_t) \quad (1)$$

where:

$\text{Equity}_t$  = Notional investment in S&P/ASX 200 Index, as defined in (2a), (2b), and (2c)

$\text{Call}_t$  = Value of the short call position, as defined in (3a), (3b), and (3c)

$\text{Cash}_t$  = Value of option premium collected, as defined in (4a), (4b), and (4c)

## When $t$ is a Roll Day

The value of the equity, short call and cash are calculated as follows:

$$\text{Equity}_t = \text{Equity}_{t-1} * \frac{TR_t}{TR_{t-1}} \quad (2a)$$

$$\text{Call}_t = N_t * \text{Settlement}_t \quad (3a)$$

$$\text{Cash}_t = N_t * \text{Bid}_t^{\text{new}} - N_{t-1} * \text{Ask}_t^{\text{old}} \quad (4a)$$

where:

$TR_t$  = The closing value of the S&P/ASX 200 Total Return index on day  $t$

$N_{t-1}$  = Number of the expiring call option at the end of the previous business day

$\text{Ask}_t^{\text{old}}$  = TWAP ask price of the expiring call option between 4:20 pm and 4:25 pm on day  $t$

$N_t$  = Number of the new call option at the end of the current business day  
 $Bid_t^{new}$  = The bid price of the new call option between 4:20 pm and 4:25 pm on day  $t$   
 $Settlement_t$  = Settlement price of the new call option at the end of the business day  $t$

The number of the new call option is determined by the index value on  $t-1$ :

$$N_t = \frac{XBW_{t-1}}{P_{t-1}} \quad (5a)$$

The strike of the new call option ( $K_t$ ) is the closest strike price at or above the closing value of the S&P/ASX 200 Price Index ( $P_t$ ):

$$K_t \geq P_t \quad (6a)$$

### When $t$ is the Next Business Day After the Roll Day

The premium received is reinvested at the OPIC value. If the roll incurs a negative cash amount, part of the equity is sold at the OPIC value. The value of the equity, short call, and cash are calculated as follows:

$$Equity_t = Equity_{t-1} * \frac{TR_t}{TR_{t-1}} + Cash_{t-1} * \frac{P_t}{OPIC_t} \quad (2b)$$

$$Call_t = N_t * Settlement_t \quad (3b)$$

$$Cash_t = 0 \quad (4b)$$

where:

$P_t$  = The closing value of the S&P/ASX 200 Price index on day  $t$

The number of the short call remains the same.

$$N_t = N_{t-1} \quad (5b)$$

### On All Other Days

The value of the equity, short call, and cash calculate as follows:

$$Equity_t = Equity_{t-1} * \frac{TR_t}{TR_{t-1}} \quad (2c)$$

$$Call_t = N_t * Settlement_t \quad (3c)$$

$$Cash_t = 0 \quad (4c)$$

where:

The number of the short call remains the same.

$$N_t = N_{t-1} \quad (5c)$$

# Index Maintenance

## Rebalancing

The option position is rolled over quarterly on the business day prior to the option expiration of March, June, September, and December.

## Currency of Calculation and Additional Index Return Series

In addition to the indices detailed in this methodology, additional return series versions of the indices may be available, including, but not limited to: currency, currency hedged, decrement, fair value, inverse, leveraged, and risk control versions. For a list of available indices, please refer to [S&P DJI Methodology & Regulatory Status Database](#).

*For information on the calculation of different types of indices, please refer to S&P Dow Jones Indices' Index Mathematics Methodology.*

*For the inputs necessary to calculate certain types of indices, including decrement, dynamic hedged, fair value, and risk control indices, please refer to the Parameters documents available at [www.spglobal.com/spdji](http://www.spglobal.com/spdji).*

## Base Date and History Availability

The index history availability, base date, and base value are shown in the table below.

Index	Launch Date	First Value Date	Base Date	Base Value
S&P/ASX Buywrite Index	05/10/2004	05/10/2004	04/18/2017	100

# Index Governance

## **Index Committee**

An S&P Dow Jones Indices' Index Committee maintains the index. All Committee members are full-time professional members of S&P Dow Jones Indices staff. The Index Committee meets regularly. At each meeting, the Index Committee reviews any significant market events. In addition, the Index Committee may revise index policy for timing of rebalancings or other matters.

S&P Dow Jones Indices considers information about changes to its indices and related matters to be potentially market moving and material. Therefore, all Index Committee discussions are confidential.

S&P Dow Jones Indices' Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

*For information on Quality Assurance and Internal Reviews of Methodology, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology and/or Options Indices Policies & Practices Methodology.*

# Index Policy

## **Holiday Schedule**

The index calculates daily when the underlying equity index is calculated.

*A complete holiday schedule for the year is available at [www.spglobal.com/spdji](http://www.spglobal.com/spdji).*

## **Unexpected Exchange Closures**

For information on Unexpected Exchange Closures, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices and Options Indices Policies & Practices Methodology documents.

## **Recalculation Policy**

For information on the recalculation policy, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology and Options Indices Policies & Practices Methodology for the underlying indices, respectively.

*For information on Calculations and Pricing Disruptions, Expert Judgment and Data Hierarchy, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices and Options Indices Policies & Practices Methodology documents for the underlying indices, respectively.*

## **Contact Information**

For questions regarding an index, please contact: [index\\_services@spglobal.com](mailto:index_services@spglobal.com).

# Index Dissemination

Index levels are available through S&P Dow Jones Indices Web site at [www.spglobal.com/spdji](http://www.spglobal.com/spdji), major quote vendors (see codes below), numerous investment-oriented Web sites, and various print and electronic media.

## Tickers

The table below lists headline indices covered by this document. All versions of the below indices that may exist are also covered by this document. Please refer to [S&P DJI Methodology & Regulatory Status Database](#) for a complete list of indices covered by this document.

Index	BBG	RIC
S&P/ASX Buywrite Index	XBW	.AXBW

## Index Data

Daily constituent and index level data are available via subscription.

For product information, please contact S&P Dow Jones Indices, [www.spglobal.com/spdji/en/contact-us](http://www.spglobal.com/spdji/en/contact-us).

## Web site

For further information, please refer to S&P Dow Jones Indices Web site at [www.spglobal.com/spdji](http://www.spglobal.com/spdji).

# Appendix I

## Methodology Changes

Methodology changes since January 1, 2015, are as follows:

<b>Change</b>	<b>Effective Date (After Close)</b>	<b>Previous</b>	<b>Methodology Updated</b>
Roll day	1/31/2023	Option expiration day	The day prior to the option expiration
Reference price to determine the strike of the new call option	1/31/2023	S&P/ASX 200 OPIC at 10:20 am	S&P/ASX 200 Index Close
Price at which the newly written call option is deemed to have been sold	1/31/2023	Trading price at 10:30 am	TWAP of bid prices between 4:20 pm and 4:25 pm
Unwinding of the expiring option	1/31/2023	Settled against OPIC	Bought back at TWAP of ask prices between 4:20 pm and 4:25 pm
Reinvestment of option premium	1/31/2023	Same day	The day after the roll
Calculation Method Change	1/31/2023	Weights/returns based	Units/Price based

# Disclaimer

## Performance Disclosure/Back-Tested Data

Where applicable, S&P Dow Jones Indices and its index-related affiliates (“S&P DJI”) defines various dates to assist our clients by providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index’s Launch Date are considered back-tested. S&P DJI defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company’s public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed “Date of introduction”) is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index’s public release date.

Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

Information presented prior to an index’s launch date is hypothetical back-tested performance, not actual performance, and is based on the index methodology in effect on the launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Also, the treatment of corporate actions in back-tested performance may differ from treatment for live indices due to limitations in replicating index management decisions. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or guarantee of future results.

Typically, when S&P DJI creates back-tested index data, S&P DJI uses actual historical constituent-level data (e.g., historical price, market capitalization, and corporate action data) in its calculations. As ESG investing is still in early stages of development, certain datapoints used to calculate certain ESG indices may not be available for the entire desired period of back-tested history. The same data availability issue could be true for other indices as well. In cases when actual data is not available for all relevant historical periods, S&P DJI may employ a process of using “Backward Data Assumption” (or pulling back) of ESG data for the calculation of back-tested historical performance. “Backward Data Assumption” is a process that applies the earliest actual live data point available for an index constituent company to all prior historical instances in the index performance. For example, Backward Data Assumption inherently assumes that companies currently not involved in a specific business activity (also known as “product involvement”) were never involved historically and similarly also assumes that companies currently involved in a specific business activity were involved historically too. The Backward Data Assumption allows the hypothetical back-test to be extended over more historical years than would be feasible using only actual data. For more information on “Backward Data Assumption” please refer to the FAQ. The methodology and factsheets of any index that employs backward assumption in the back-tested history

will explicitly state so. The methodology will include an Appendix with a table setting forth the specific data points and relevant time period for which backward projected data was used. Index returns shown do not represent the results of actual trading of investable assets/securities. S&P DJI maintains the index and calculates the index levels and performance shown or discussed but does not manage any assets.

Index returns do not reflect payment of any sales charges or fees an investor may pay to purchase the securities underlying the Index or investment funds that are intended to track the performance of the Index. The imposition of these fees and charges would cause actual and back-tested performance of the securities/fund to be lower than the Index performance shown. As a simple example, if an index returned 10% on a US \$100,000 investment for a 12-month period (or US \$10,000) and an actual asset-based fee of 1.5% was imposed at the end of the period on the investment plus accrued interest (or US \$1,650), the net return would be 8.35% (or US \$8,350) for the year. Over a three-year period, an annual 1.5% fee taken at year end with an assumed 10% return per year would result in a cumulative gross return of 33.10%, a total fee of US \$5,375, and a cumulative net return of 27.2% (or US \$27,200).

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Prospective users of an S&P DJI ESG Index are encouraged to read the relevant index methodology and related disclosures carefully to determine whether the index is suitable for their potential use case or investment objective.