



## Pricing Supplement

Dated December 15, 2023

To the Product Prospectus Supplement No. CCBN-1 Dated August 1, 2023, the Prospectus Supplement Dated September 14, 2021 and the Prospectus Dated September 14, 2021

Auto-Callable Contingent Coupon Barrier Notes with Memory Coupon, Each Linked to a Different Reference Stock, Due December 18, 2026

Royal Bank of Canada

Royal Bank of Canada is offering four separate Auto-Callable Contingent Coupon Barrier Notes with Memory Coupon (the "Notes"). Each Note is linked to the common stock (the "Reference Stock") of a different issuer (each, a "Reference Stock Issuer"), as set forth in the table below. You may participate in one or more of the offerings. The performance of each of the Notes will not depend upon the performance of any other issuance of the Notes.

The Notes are our senior unsecured obligations, will pay the applicable quarterly Contingent Coupon at the rate and under the circumstances specified below, and will have the terms described in the documents described above, as supplemented or modified by this pricing supplement.

**The Notes do not guarantee any return of principal at maturity. Any payments on the Notes are subject to our credit risk. Investing in the Notes involves a number of risks. See "Selected Risk Considerations" beginning on page P-8 of this pricing supplement, and "Risk Factors" beginning on page PS-4 of the product prospectus supplement dated August 1, 2023 and page S-2 of the prospectus supplement dated September 14, 2021.**

The Notes will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation or any other Canadian or U.S. government agency or instrumentality. The Notes are not subject to conversion into our common shares under subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the Notes or determined that this pricing supplement is truthful or complete. Any representation to the contrary is a criminal offense.

### Common Terms for Each Note

<b>Issuer:</b>	Royal Bank of Canada	<b>Stock Exchange Listing:</b>	None
<b>Trade Date:</b>	December 15, 2023	<b>Principal Amount:</b>	\$1,000 per Note
<b>Issue Date:</b>	December 20, 2023	<b>Maturity Date:</b>	December 18, 2026
<b>Observation Dates:</b>	Quarterly, as set forth below.	<b>Coupon Payment Dates:</b>	Quarterly, as set forth below.
<b>Valuation Date:</b>	December 15, 2026	<b>Contingent Coupon Rate:</b>	As set forth in the table below
<b>Initial Stock Price:</b>	The closing price of the applicable Reference Stock on the Trade Date, as set forth in the table below.		
<b>Final Stock Price:</b>	The closing price of the applicable Reference Stock on the Valuation Date.		
<b>Call Stock Price:</b>	100% of the applicable Initial Stock Price.		
<b>Trigger Price and Coupon Barrier:</b>	A percentage of the applicable Initial Stock Price, as set forth in the table below.		
<b>Contingent Coupon and Memory Coupon Feature:</b>	If the closing price of the applicable Reference Stock is greater than or equal to the Coupon Barrier on the applicable Observation Date, we will pay the Contingent Coupon applicable to that Observation Date, together with any Contingent Coupons that were not previously paid. You may not receive any Contingent Coupons during the term of the Notes.		
<b>Payment at Maturity (if held to maturity):</b>	If the applicable Notes are not previously called, we will pay you at maturity an amount based on the applicable Final Stock Price: For each \$1,000 in principal amount, \$1,000, unless the Final Stock Price is less than the Trigger Price. You will also receive the final Contingent Coupon (and any previously unpaid Contingent Coupons) if the Final Stock Price is greater than the Coupon Barrier. If the Final Stock Price is less than the Trigger Price, then the investor will receive at maturity, for each \$1,000 in principal amount, a cash payment equal to: \$1,000 + (\$1,000 x Percentage Change). <b>Investors in the Notes will lose some or all of their principal amount if the Final Stock Price is less than the Trigger Price.</b>		
<b>Call Feature:</b>	If the closing price of the applicable Reference Stock is greater than or equal to the Call Stock Price starting on June 17, 2024 and on any Observation Date thereafter, the Notes will be automatically called for 100% of their principal amount, plus the Contingent Coupon applicable to the corresponding Observation Date, together with any unpaid Contingent Coupons.		
<b>Call Settlement Dates:</b>	The Coupon Payment Date corresponding to that Observation Date.		

### Specific Terms for Each of the Notes

Reference Stock	CUSIP	Contingent Coupon Rate (Per Annum)	Initial Stock Price	Trigger Price and Coupon Barrier	Estimated Initial Value	Price to Public <sup>(1)</sup>	Underwriting Discounts and Commissions <sup>(1)</sup>	Proceeds to Royal Bank of Canada	Principal Amount
Truist Financial Corporation ("TFC")	78017F4F7	9.50%	\$36.70	\$22.02, which is 60% of the Initial Stock Price	\$969.31	\$1,847,000 / 100.00%	\$45,880 / 2.484%	\$1,801,120 / 97.516%	\$1,847,000
Tesla, Inc. ("TSLA")	78017F4G5	12.75%	\$253.50	\$126.75, which is 50% of the Initial Stock Price	\$965.53	\$2,785,000 / 100.00%	\$68,410 / 2.456%	\$2,716,590 / 97.544%	\$2,785,000
The Trade Desk, Inc. ("TTD")	78017F4H3	12.00%	\$74.89	\$37.45, which is 50% of the Initial Stock Price*	\$959.66	\$1,927,000 / 100.00%	\$48,175 / 2.500%	\$1,878,825 / 97.500%	\$1,927,000
United Rentals, Inc. ("URI")	78017F4J9	9.75%	\$571.74	\$343.04, which is 60% of the Initial Stock Price*	\$965.59	\$598,000 / 100.00%	\$14,887.50 / 2.490%	\$583,112.50 / 97.510%	\$598,000

\*Rounded to two decimal places.

<sup>(1)</sup> We or one of our affiliates may pay varying selling concessions of up to \$25.00 per \$1,000 in principal amount of each of the Notes in connection with the distribution of the Notes to other registered broker-dealers. Certain dealers who purchase the Notes for sale to certain fee-based advisory accounts may forego some or all of their underwriting discount or selling concessions. The public offering price for investors purchasing the Notes in these accounts may be between \$975.00 and \$1,000 per \$1,000 in principal amount. See "Supplemental Plan of Distribution (Conflicts of Interest)" below.

The initial estimated value of the Notes as of the Trade Date is set forth in the table above for each \$1,000 in principal amount of the applicable Notes, and in each case is less than the price to public. The actual value of each the Notes at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. We describe our determination of the initial estimated value in more detail below.

## SUMMARY

*The information in this “Summary” section is qualified by the more detailed information set forth in this pricing supplement, the product prospectus supplement, the prospectus supplement, and the prospectus.*

General:	This pricing supplement relates to offerings of Auto-Callable Contingent Coupon Barrier Notes with Memory Coupon (the “Notes”), each linked to one of the Reference Stocks set forth above.
Issuer:	Royal Bank of Canada (the “Bank”)
Trade Date:	December 15, 2023
Issue Date:	December 20, 2023
Valuation Date:	December 15, 2026
Maturity Date:	December 18, 2026
Denominations:	Minimum denomination of \$1,000, and integral multiples of \$1,000 thereafter.
Contingent Coupon and Memory Coupon Feature:	<p>We will pay you a Contingent Coupon during the term of the Notes, periodically in arrears on each Coupon Payment Date, under the conditions described below:</p> <ul style="list-style-type: none"> <li>• If the closing price of the applicable Reference Stock is greater than or equal to the Coupon Barrier on the applicable Observation Date, we will pay the Contingent Coupon applicable to that Observation Date, together with any Contingent Coupons that were previously unpaid.</li> <li>• If the closing price of the applicable Reference Stock is less than the Coupon Barrier on the applicable Observation Date, we will not pay you the Contingent Coupon applicable to that Observation Date.</li> </ul>

*You may not receive a Contingent Coupon for one or more quarterly periods during the term of your Notes. For the avoidance of doubt, if an unpaid Contingent Coupon is paid on a subsequent Coupon Payment Date, that unpaid Contingent Coupon will not be paid on any subsequent Coupon Payment Date.*

Contingent Coupon Rate: As set forth on the cover page for each of the Notes.

Observation Dates and Coupon Payment Dates: Quarterly, as set forth in the table below:

Observation Dates	Coupon Payment Dates
March 15, 2024	March 20, 2024
June 17, 2024	June 21, 2024
September 16, 2024	September 19, 2024
December 16, 2024	December 19, 2024
March 17, 2025	March 20, 2025
June 16, 2025	June 20, 2025
September 15, 2025	September 18, 2025
December 15, 2025	December 18, 2025
March 16, 2026	March 19, 2026
June 15, 2026	June 18, 2026
September 15, 2026	September 18, 2026
December 15, 2026 (the Valuation Date)	December 18, 2026 (the Maturity Date)

Record Dates:	The record date for each Coupon Payment Date will be one business day prior to that scheduled Coupon Payment Date; provided, however, that any Contingent Coupon(s) payable at maturity or upon a call of the applicable Notes will be payable to the person to whom the payment at maturity or upon the call, as the case may be, will be payable.
Call Feature:	If, <b>starting on June 17, 2024</b> and on any Observation Date thereafter, the closing price of the applicable Reference Stock is greater than or equal to the Call Stock Price, then the applicable Notes will be automatically called.
Call Settlement Dates:	If the applicable Notes are called on any Observation Date starting on June 17, 2024 and thereafter, the Call Settlement Date for those Notes will be the Coupon Payment Date corresponding to that Observation Date.
Payment if Called:	If the applicable Notes are automatically called, then, on the applicable Call Settlement Date, for each \$1,000 in principal amount, you will receive \$1,000 plus the Contingent Coupon otherwise due on that Call Settlement Date and any previously unpaid Contingent Coupons.
Initial Stock Price:	The closing price of the applicable Reference Stock on the Trade Date, as set forth on the cover page of this document.
Final Stock Price:	The closing price of the applicable Reference Stock on the Valuation Date.
Call Stock Price:	100% of the applicable Initial Stock Price.
Trigger Price and Coupon Barrier:	A percentage of the applicable Initial Stock Price, as set forth on the cover page of this document.
Payment at Maturity (if not previously called and held to maturity):	<p>If the applicable Notes are not previously called, we will pay you at maturity an amount based on the applicable Final Stock Price:</p> <ul style="list-style-type: none"> <li>• If the Final Stock Price is greater than or equal to the Trigger Price, we will pay you a cash payment equal to the principal amount. You will also receive the final Contingent Coupon (and any previously unpaid Contingent Coupons) if the Final Stock Price is greater than the Coupon Barrier.</li> <li>• If the Final Stock Price is below the Trigger Price, you will receive at maturity, for each \$1,000 in principal amount, a cash payment equal to: \$1,000 + (\$1,000 x Percentage Change)</li> </ul> <p>The amount of cash that you receive in this case will be less than your principal amount, if anything, resulting in a loss that is proportionate to the decline of the applicable Reference Stock from the Trade Date to the Valuation Date. <i>Investors in the Notes will lose some or all of their principal amount if the applicable Final Stock Price is less than the Trigger Price.</i></p>
Percentage Change:	<p>As to each of the Notes,</p> $\frac{\text{Final Stock Price} - \text{Initial Stock Price}}{\text{Initial Stock Price}}$
Stock Settlement:	Not applicable. Payments on the Notes will be made solely in cash.
Market Disruption Events:	The occurrence of a market disruption event (or a non-trading day) as to the applicable Reference Stock will result in the postponement of an Observation Date or the Valuation Date, as described in the product prospectus supplement.
Calculation Agent:	RBC Capital Markets, LLC ("RBCCM")
U.S. Tax Treatment:	By purchasing a Note, each holder agrees (in the absence of a change in law, an administrative determination or a judicial ruling to the contrary) to treat the Notes as a callable pre-paid cash-settled contingent income-bearing derivative contract linked to the Reference Stock for U.S. federal income tax purposes. However, the U.S. federal income tax consequences of your investment in the Notes are uncertain and the Internal Revenue

Service could assert that the Notes should be taxed in a manner that is different from that described in the preceding sentence. Please see the section below, “Supplemental Discussion of U.S. Federal Income Tax Consequences,” and the discussion (including the opinion of Ashurst LLP, our special U.S. tax counsel) in the product prospectus supplement under “Supplemental Discussion of U.S. Federal Income Tax Consequences,” which apply to the Notes.

Secondary Market:	RBCCM (or one of its affiliates), though not obligated to do so, may maintain a secondary market in the Notes after the issue date. The amount that you may receive upon sale of your Notes prior to maturity may be less than the principal amount.
Listing:	The Notes will not be listed on any securities exchange.
Settlement:	DTC global (including through its indirect participants Euroclear and Clearstream, Luxembourg as described under “Ownership and Book-Entry Issuance” in the prospectus dated September 14, 2021).
Terms Incorporated in the Master Note:	All of the terms appearing on the cover page and above the item captioned “Secondary Market” in this section and the terms appearing under the caption “General Terms of the Notes” in the product prospectus supplement, as modified by this pricing supplement.

## ADDITIONAL TERMS OF YOUR NOTES

You should read this pricing supplement together with the prospectus dated September 14, 2021, as supplemented by the prospectus supplement dated September 14, 2021 and the product prospectus supplement dated August 1, 2023, relating to our Senior Global Medium Term Notes, Series I, of which these Notes are a part. Capitalized terms used but not defined in this pricing supplement will have the meanings given to them in the product prospectus supplement. In the event of any conflict, this pricing supplement will control. ***The Notes vary from the terms described in the product prospectus supplement in several important ways. You should read this pricing supplement carefully.***

This pricing supplement, together with the documents listed below, contains the terms of the Notes and supersedes all prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Risk Factors” in the prospectus supplement dated September 14, 2021 and in the product prospectus supplement dated August 1, 2023, as the Notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisors before you invest in the Notes. You may access these documents on the Securities and Exchange Commission (the “SEC”) website at [www.sec.gov](http://www.sec.gov) as follows (or if that address has changed, by reviewing our filings for the relevant date on the SEC website):

Prospectus dated September 14, 2021:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465921009470/rbc911212424b3.htm>

Prospectus Supplement dated September 14, 2021:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465921009472/rbcsupp911210424b3.htm>

Product prospectus supplement dated August 1, 2023:

[https://www.sec.gov/Archives/edgar/data/1000275/000114036123037451/brhc20056850\\_424b5.htm](https://www.sec.gov/Archives/edgar/data/1000275/000114036123037451/brhc20056850_424b5.htm)

Our Central Index Key, or CIK, on the SEC website is 1000275. As used in this pricing supplement, “we,” “us,” or “our” refers to Royal Bank of Canada.

## HYPOTHETICAL EXAMPLES

The table set out below is included for illustration purposes only. The table illustrates the Payment at Maturity of the Notes (excluding the final Contingent Coupon and any unpaid Contingent Coupons, if payable) for a hypothetical range of performance for the applicable Reference Stock, assuming the following terms and that the Notes are not automatically called prior to maturity. These terms are for illustrative purposes only; the actual terms for each of the Notes are set forth on the cover page of this pricing supplement.

Hypothetical Initial Stock Price:	\$100.00*
Hypothetical Trigger Price and Coupon Barrier:	\$80.00, which is 80% of the hypothetical Initial Stock Price
Observation Dates:	Quarterly
Principal Amount:	\$1,000 per Note

\* The hypothetical Initial Stock Price of \$100 used in the examples below has been chosen for illustrative purposes only and is not the actual Initial Stock Price of any Reference Stock. The actual Initial Stock Price for each Reference Stock is set forth on the cover page of this pricing supplement.

Hypothetical Final Stock Prices are shown in the first column on the left. The second column shows the Payment at Maturity for a range of Final Stock Prices. The third column shows the amount of cash to be paid on the Notes per \$1,000 in principal amount. If the Notes are called prior to maturity, the hypothetical examples below will not be relevant, and you will receive on the applicable Coupon Payment Date, for each \$1,000 principal amount, \$1,000 plus the Contingent Coupon(s) otherwise due on the Notes.

Hypothetical Final Stock Price	Payment at Maturity as Percentage of Principal Amount	Cash Payment Amount per \$1,000 in Principal Amount
\$180.00	100.00%*	\$1,000.00*
\$170.00	100.00%*	\$1,000.00*
\$160.00	100.00%*	\$1,000.00*
\$150.00	100.00%*	\$1,000.00*
\$140.00	100.00%*	\$1,000.00*
\$130.00	100.00%*	\$1,000.00*
\$120.00	100.00%*	\$1,000.00*
\$110.00	100.00%*	\$1,000.00*
\$100.00	100.00%*	\$1,000.00*
\$90.00	100.00%*	\$1,000.00*
\$80.00	100.00%*	\$1,000.00*
\$79.99	79.99%	\$799.90
\$70.00	70.00%	\$700.00
\$60.00	60.00%	\$600.00
\$50.00	50.00%	\$500.00
\$40.00	40.00%	\$400.00
\$30.00	30.00%	\$300.00
\$20.00	20.00%	\$200.00
\$10.00	10.00%	\$100.00
\$0.00	0.00%	\$0.00

\*Excluding the final Contingent Coupon and any unpaid Contingent Coupons, if payable.

### Hypothetical Examples of Amounts Payable at Maturity

The following hypothetical examples illustrate how the payments at maturity set forth in the table above are calculated, assuming the Notes have not been called.

**Example 1: The price of the Reference Stock increases by 25% from the Initial Stock Price of \$100.00 to a Final Stock Price of \$125.00.** Because the Final Stock Price is greater than the Trigger Price and its Coupon Barrier, the investor receives at maturity, in addition to the final Contingent Coupon otherwise due on the Notes (and any previously unpaid Contingent Coupons), a cash payment of \$1,000 per Note, despite the 25% appreciation in the price of the Reference Stock.

**Example 2: The price of the Reference Stock decreases by 10% from the Initial Stock Price of \$100.00 to a Final Stock Price of \$90.00.** Because the Final Stock Price is greater than the Trigger Price and its Coupon Barrier, the investor receives at maturity, in addition to the final Contingent Coupon otherwise due on the Notes (and any previously unpaid Contingent Coupons), a cash payment of \$1,000 per Note, despite the 10% decline in the price of the Reference Stock.

**Example 3: The price of the Reference Stock decreases by 70% from the Initial Stock Price of \$100.00 to a Final Stock Price of \$30.00.** Because the Final Stock Price is less than the Trigger Price and its Coupon Barrier, the final Contingent Coupon will not be payable on the Maturity Date, and we will pay only \$300.00 for each \$1,000 in the principal amount of the Notes, calculated as follows:

$$\begin{aligned} & \text{Principal Amount} + (\text{Principal Amount} \times \text{Percentage Change}) \\ &= \$1,000 + (\$1,000 \times -70.00\%) = \$1,000 - \$700.00 = \$300.00 \end{aligned}$$

\* \* \*

The Payments at Maturity shown above are entirely hypothetical; they are based on theoretical prices of a Reference Stock that may not be achieved on the Valuation Date and on assumptions that may prove to be erroneous. The actual market value of your Notes on the Maturity Date or at any other time, including any time you may wish to sell your Notes, may bear little relation to the hypothetical Payments at Maturity shown above, and those amounts should not be viewed as an indication of the financial return on an investment in the Notes.



## SELECTED RISK CONSIDERATIONS

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in any Reference Stock. These risks are explained in more detail in the section “Risk Factors” in the product prospectus supplement. In addition to the risks described in the prospectus supplement and the product prospectus supplement, you should consider the following:

### Risks Relating to the Terms of the Notes

- **You May Lose All or a Portion of the Principal Amount at Maturity** — Investors in the Notes could lose all or a substantial portion of their principal amount if there is a decline in the trading price of the applicable Reference Stock between the Trade Date and the Valuation Date. If the Notes are not automatically called and the applicable Final Stock Price is less than its Trigger Price, the amount that you receive at maturity will represent a loss of your principal that is proportionate to the decline in the closing price of the applicable Reference Stock from the Trade Date to the Valuation Date. Any Contingent Coupons received on the Notes prior to the Maturity Date may not be sufficient to compensate for any such loss.
- **The Notes Are Subject to an Automatic Call** — If on any Observation Date beginning with the second Observation Date, the closing price of the applicable Reference Stock is greater than or equal to the Call Stock Price, then the Notes will be automatically called. If the Notes are automatically called, then, on the applicable Call Settlement Date, for each \$1,000 in principal amount, you will receive \$1,000 plus the Contingent Coupon otherwise due on the applicable Call Settlement Date (together with any previously unpaid Contingent Coupons). You will not receive any Contingent Coupons after the Call Settlement Date. You may be unable to reinvest your proceeds from the automatic call in an investment with a return that is as high as the return on the Notes would have been if they had not been called.
- **You May Not Receive Any Contingent Coupons** — We will not necessarily make any coupon payments on the Notes. If the closing price of the applicable Reference Stock on an Observation Date is less than the Coupon Barrier, we will not pay you the Contingent Coupon applicable to that Observation Date. If the closing price of the applicable Reference Stock is less than the Coupon Barrier on each of the Observation Dates and on the Valuation Date, we will not pay you any Contingent Coupons during the term of, and you will not receive a positive return on your Notes. Generally, this non-payment of the Contingent Coupon coincides with a period of greater risk of principal loss on your Notes. Accordingly, if we do not pay the Contingent Coupon on the Maturity Date, you will also incur a loss of principal, because the applicable Final Stock Price will be less than its Trigger Price. Notwithstanding the memory coupon feature of the Notes, it is possible that any unpaid Contingent Coupons will remain unpaid for the remaining term of the applicable Notes.
- **The Call Feature and the Contingent Coupon Feature Limit Your Potential Return** — The return potential of the Notes is limited to the pre-specified Contingent Coupon Rate, regardless of the appreciation of the applicable Reference Stock. In addition, the total return on your Notes will vary based on the number of Observation Dates on which the Contingent Coupon becomes payable prior to maturity or an automatic call. Further, if the Notes are called due to the Call Feature, you will not receive any Contingent Coupons or any other payment in respect of any Observation Dates after the applicable Call Settlement Date. Since your Notes could be called as early as the second Observation Date, the total return on the Notes could be minimal. If your Notes are not called, you may be subject to the full downside performance of the applicable Reference Stock, even though your potential return is limited to the applicable Contingent Coupon Rate. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the applicable Reference Stock.
- **Your Return on the Notes May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity** — The return that you will receive on your Notes, which could be negative, may be less than the return you could earn on other investments. Even if your return is positive, your return may be less than the return you would earn if you purchased one of our conventional senior interest bearing debt securities.
- **Payments on the Notes Are Subject to Our Credit Risk, and Changes in Our Credit Ratings Are Expected to Affect the Market Value of the Notes** — The Notes are our senior unsecured debt securities. As a result, your receipt of any Contingent Coupons, if payable, and the amount due on any relevant payment date is dependent upon our ability to repay our obligations on the applicable payment dates. This will be the case even if



the price of the applicable Reference Stock increases after the Trade Date. No assurance can be given as to what our financial condition will be at any time during the term of the Notes.

#### **Risks Relating to the Secondary Market for the Notes**

- **There May Not Be an Active Trading Market for the Notes-Sales in the Secondary Market May Result in Significant Losses** — There may be little or no secondary market for the Notes. The Notes will not be listed on any securities exchange. RBCCM and our other affiliates may make a market for the Notes; however, they are not required to do so. RBCCM or any other affiliate of ours may stop any market-making activities at any time. Even if a secondary market for the Notes develops, it may not provide significant liquidity or trade at prices advantageous to you. We expect that transaction costs in any secondary market would be high. As a result, the difference between bid and asked prices for your Notes in any secondary market could be substantial.

#### **Risks Relating to the Initial Estimated Value of the Notes**

- **The Initial Estimated Value of the Notes Is Less than the Price to the Public** — The initial estimated values that are set forth on the cover page of this pricing supplement do not represent a minimum price at which we, RBCCM or any of our affiliates would be willing to purchase the Notes in any secondary market (if any exists) at any time. If you attempt to sell the Notes prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the price of the applicable Reference Stock, the borrowing rate we pay to issue securities of this kind, and the inclusion in the price to the public of the underwriting discount and the estimated costs relating to our hedging of the Notes. These factors, together with various credit, market and economic factors over the term of the Notes, are expected to reduce the price at which you may be able to sell your Notes in any secondary market and will affect the value of the Notes in complex and unpredictable ways. Assuming no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your Notes prior to maturity may be less than your original purchase price, as any such sale price would not be expected to include the underwriting discount or the hedging costs relating to the Notes. In addition to bid-ask spreads, the value of your Notes determined by RBCCM for any secondary market price is expected to be based on the secondary rate rather than the internal funding rate used to price the Notes and determine the initial estimated value. As a result, the secondary price will be less than if the internal funding rate was used. The Notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Notes to maturity.
- **The Initial Estimated Value of the Notes that Is Set Forth on the Cover Page of this Pricing Supplement Is an Estimate Only, Calculated as of the Time the Terms of the Notes Were Set** — The initial estimated value of each of the Notes is based on the value of our obligation to make the payments on the Notes, together with the mid-market value of the derivative embedded in the terms of the Notes. See “Structuring the Notes” below. Our estimate is based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the Notes. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the Notes or similar securities at a price that is significantly different than we do.

The value of each of the Notes at any time after the Trade Date will vary based on many factors, including changes in market conditions, and cannot be predicted with accuracy. As a result, the actual value you would receive if you sold your Notes in any secondary market, if any, should be expected to differ materially from the initial estimated value of your Notes.

#### **Risks Relating to Conflicts of Interest and Our Trading Activities**

- **Our Business Activities May Create Conflicts of Interest** — We and our affiliates expect to engage in trading activities related to the Reference Stocks that are not for the account of holders of the Notes or on their behalf. These trading activities may present a conflict between the holders’ interests in the applicable Notes and the interests we and our affiliates will have in their proprietary accounts, in facilitating transactions, including options and other derivatives transactions, for their customers and in accounts under their management. These trading activities, if they influence the share price of a Reference Stock, could be adverse to the interests of the holders of the applicable Notes. We and one or more of our affiliates may, at present or in the future, engage in business with the Reference Stock Issuers, including making loans to or providing advisory services. These services could

include investment banking and merger and acquisition advisory services. These activities may present a conflict between our or one or more of our affiliates' obligations and your interests as a holder of the Notes. Moreover, we, and our affiliates may have published, and in the future expect to publish, research reports with respect to the Reference Stocks. This research is modified from time to time without notice and may express opinions or provide recommendations that are inconsistent with purchasing or holding the applicable Notes. Any of these activities by us or one or more of our affiliates may affect the share price of the applicable Reference Stock, and, therefore, the market value of your Notes.

#### **Risks Relating to the Reference Stocks**

- **Owning the Notes Is Not the Same as Owning the Applicable Reference Stock** — The return on your Notes is unlikely to reflect the return you would realize if you actually owned shares of the applicable Reference Stock. For instance, you will not receive or be entitled to receive any dividend payments or other distributions on the applicable Reference Stock during the term of your Notes. As an owner of the Notes, you will not have voting rights or any other rights that holders of the applicable Reference Stock may have. Furthermore, the applicable Reference Stock may appreciate substantially during the term of the Notes, while your potential return will be limited to the applicable Contingent Coupon payments.
- **There Is No Affiliation Between the Reference Stock Issuers and RBCCM, and RBCCM Is Not Responsible for any Disclosure by any Reference Stock Issuer** — We are not affiliated with the Reference Stock Issuers. However, we and our affiliates may currently, or from time to time in the future engage, in business with the Reference Stock Issuers. Nevertheless, neither we nor our affiliates assume any responsibilities for the accuracy or the completeness of any information that any other company prepares. You, as an investor in the Notes, should make your own investigation into the applicable Reference Stock. The Reference Stock Issuers are not involved in the offerings of the Notes and have no obligation of any sort with respect to your Notes. The Reference Stock Issuers have no obligation to take your interests into consideration for any reason, including when taking any corporate actions that might affect the value of your Notes.
- **The Payments on the Notes Are Subject to Postponement Due to Market Disruption Events and Adjustments** — The payment at maturity, each Observation Date and the Valuation Date are subject to adjustment as described in the product prospectus supplement. For a description of what constitutes a market disruption event as well as the consequences of that market disruption event, see "General Terms of the Notes—Market Disruption Events" in the product prospectus supplement.

## INFORMATION REGARDING THE REFERENCE STOCK ISSUERS

The Reference Stocks are registered under the Securities Exchange Act of 1934 (the "Exchange Act"). Companies with securities registered under that Act are required to file periodically certain financial and other information specified by the SEC. Information filed with the SEC can be obtained through the SEC's website at [www.sec.gov](http://www.sec.gov). In addition, information regarding the Reference Stocks may be obtained from other sources including, but not limited to, press releases, newspaper articles and other publicly disseminated documents.

The following information regarding the Reference Stock Issuers is derived from publicly available information.

We have not independently verified the accuracy or completeness of reports filed by the Reference Stock Issuers with the SEC, information published by them on their websites or in any other format, information about them obtained from any other source or the information provided below.

We obtained the information regarding the historical performance of the Reference Stocks set forth below from Bloomberg Financial Markets.

### **Truist Financial Corporation**

Truist Financial Corporation operates banking offices. The company offers commercial and retail banking, as well as insurance, retail brokerage, corporate finance, banking, leasing, and trust services.

The company's common stock is listed on the New York Stock Exchange (the "NYSE") under the ticker symbol "TFC."

### **Tesla, Inc.**

Tesla, Inc. designs, manufactures, and sells electric vehicles and electric vehicle powertrain components. The company owns its sales and service network and sells electric powertrain components to other automobile manufacturers.

The company's common stock is listed on the Nasdaq Global Select Market (the "Nasdaq") under the ticker symbol "TSLA."

### **The Trade Desk, Inc.**

The Trade Desk, Inc. operates as an advertising technology company. The company offers an online advertising platform that manages display, social, mobile, and video advertising campaigns.

The company's common stock is listed on the Nasdaq under the ticker symbol "TTD."

### **United Rentals, Inc.**

United Rentals, Inc., through its subsidiary, is an equipment rental company operating a network of locations in the United States and Canada. The company serves the construction industry, industrial and commercial concerns, homeowners, and other individuals.

The company's common stock is listed on the Nasdaq under the ticker symbol "URI."

## Historical Information

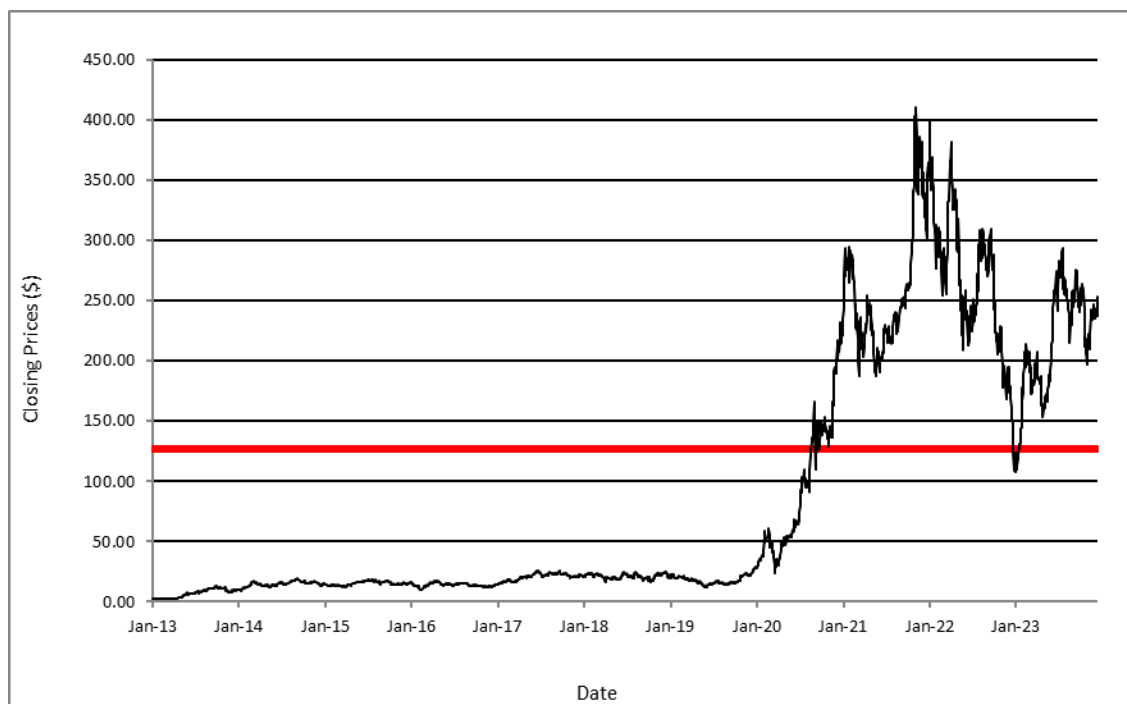
### Truist Financial Corporation

The graph below illustrates the performance of this Reference Stock from January 1, 2013 to December 15, 2023, reflecting its Initial Stock Price of \$36.70. The red line represents its Coupon Barrier and Trigger Price of \$22.02, which is equal to 60% of its Initial Stock Price.



**Tesla, Inc.**

The graph below illustrates the performance of this Reference Stock from January 1, 2013 to December 15, 2023, reflecting its Initial Stock Price of \$253.50. The red line represents its Coupon Barrier and Trigger Price of \$126.75, which is equal to 50% of its Initial Stock Price.



**The Trade Desk, Inc.**

The graph below illustrates the performance of this Reference Stock from September 21, 2016 (the date that trading commenced) to December 15, 2023, reflecting its Initial Stock Price of \$74.89. The red line represents its Coupon Barrier and Trigger Price of \$37.45, which is equal to 50% of its Initial Stock Price (rounded to two decimal places).



**United Rentals, Inc.**

The graph below illustrates the performance of this Reference Stock from January 1, 2013 to December 15, 2023, reflecting its Initial Stock Price of \$571.74. The red line represents its Coupon Barrier and Trigger Price of \$343.04, which is equal to 60% of its Initial Stock Price (rounded to two decimal places).





## **SUPPLEMENTAL DISCUSSION OF U.S. FEDERAL INCOME TAX CONSEQUENCES**

The following disclosure supplements, and to the extent inconsistent supersedes, the discussion in the product prospectus supplement dated August 1, 2023 under “Supplemental Discussion of U.S. Federal Income Tax Consequences.”

Under Section 871(m) of the Code, a “dividend equivalent” payment is treated as a dividend from sources within the United States. Such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments (“ELIs”) that are “specified ELIs” may be treated as dividend equivalents if such specified ELIs reference, directly or indirectly, an interest in an “underlying security,” which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, the IRS has issued guidance that states that the U.S. Treasury Department and the IRS intend to amend the effective dates of the U.S. Treasury Department regulations to provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2025. Based on our determination that the Notes are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the Notes. However, it is possible that the Notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events, and following such occurrence the applicable Notes could be treated as subject to withholding on dividend equivalent payments. Non-U.S. holders that enter, or have entered, into other transactions in respect of the applicable Reference Stock or the Notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the Notes and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable withholding agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

## SUPPLEMENTAL PLAN OF DISTRIBUTION (CONFLICTS OF INTEREST)

Delivery of each of the Notes will be made against payment for the Notes on December 20, 2023, which is the third (3rd) business day following the Trade Date (this settlement cycle being referred to as "T+3"). See "Plan of Distribution" in the prospectus dated September 14, 2021. For additional information as to the relationship between us and RBCCM, please see the section "Plan of Distribution—Conflicts of Interest" in the prospectus dated September 14, 2021.

We will deliver the Notes on a date that is greater than two business days following the Trade Date. Under Rule 15c6-1 of the Exchange Act, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade the applicable Notes more than two business days prior to the original issue date will be required to specify alternative settlement arrangements to prevent a failed settlement.

In the initial offering of the Notes, they will each be offered to investors at a purchase price equal to par, except with respect to certain accounts as indicated on the cover page of this document. In addition to the underwriting discount set forth on the cover page, we or one of our affiliates may also pay an expected fee to a broker-dealer that is unaffiliated with us for providing certain electronic platform services with respect to the offerings of the Notes.

The value of the applicable Notes shown on your account statement may be based on RBCCM's estimate of the value of the Notes if RBCCM or another of our affiliates were to make a market in the Notes (which it is not obligated to do). That estimate will be based upon the price that RBCCM may pay for the applicable Notes in light of then prevailing market conditions, our creditworthiness and transaction costs. For a period of approximately six months after the issue date of the Notes, the value of the applicable Notes that may be shown on your account statement may be higher than RBCCM's estimated value of those Notes at that time. This is because the estimated value of the Notes will not include the underwriting discount or our hedging costs and profits; however, the value of the applicable Notes shown on your account statement during that period may initially be a higher amount, reflecting the addition of RBCCM's underwriting discount and our estimated costs and profits from hedging the Notes. This excess is expected to decrease over time until the end of this period. After this period, if RBCCM repurchases your Notes, it expects to do so at prices that reflect their estimated value.

We may use this pricing supplement in the initial sale of the Notes. In addition, RBCCM or another of our affiliates may use this pricing supplement in a market-making transaction in the Notes after their initial sale. ***Unless we or our agent informs the purchaser otherwise in the confirmation of sale, this pricing supplement is being used in a market-making transaction.***

## STRUCTURING THE NOTES

The Notes are our debt securities, the return on which is linked to the performance of the applicable Reference Stock. As is the case for all of our debt securities, including our structured notes, the economic terms of the Notes reflect our actual or perceived creditworthiness at the time of pricing. In addition, because structured notes result in increased operational, funding and liability management costs to us, we typically borrow the funds under these Notes at a rate that is more favorable to us than the rate that we might pay for a conventional fixed or floating rate debt security of comparable maturity. Using this relatively lower implied borrowing rate rather than the secondary market rate, is a factor that reduced the initial estimated value of the Notes at the time their terms were set. Unlike the estimated values that are set forth on the cover page of this pricing supplement, any value of the Notes determined for purposes of a secondary market transaction may be based on a different funding rate, which may result in a lower value for the Notes than if our initial internal funding rate were used.

In order to satisfy our payment obligations under the Notes, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) on the issue date with RBCCM or one of our other subsidiaries. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of the applicable Reference Stock, and the tenor of the Notes. The economic terms of the Notes and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate is a factor that reduced the economic terms of the Notes to you. The initial offering price of the Notes also reflects the underwriting commission and our estimated hedging costs. These factors resulted in the initial estimated value for each of the Notes on the Trade Date being less than their public offering price. See “Selected Risk Considerations—The Initial Estimated Value of the Notes Is Less than the Price to the Public” above.

## VALIDITY OF THE NOTES

In the opinion of Norton Rose Fulbright Canada LLP, the issue and sale of the Notes has been duly authorized by all necessary corporate action of the Bank in conformity with the Indenture, and when the Notes have been duly executed, authenticated and issued in accordance with the Indenture and delivered against payment therefor, the Notes will be validly issued and, to the extent validity of the Notes is a matter governed by the laws of the Province of Ontario or Québec, or the laws of Canada applicable therein, will be valid obligations of the Bank, subject to equitable remedies which may only be granted at the discretion of a court of competent authority, subject to applicable bankruptcy, to rights to indemnity and contribution under the Notes or the Indenture which may be limited by applicable law, to insolvency and other laws of general application affecting creditors' rights, to limitations under applicable limitations statutes, and to limitations as to the currency in which judgments in Canada may be rendered, as prescribed by the Currency Act (Canada). This opinion is given as of the date hereof and is limited to the laws of the Provinces of Ontario and Québec and the federal laws of Canada applicable thereto. In addition, this opinion is subject to customary assumptions about the Trustee's authorization, execution and delivery of the Indenture and the genuineness of signatures and certain factual matters, all as stated in the letter of such counsel dated September 14, 2021, which has been filed as Exhibit 5.3 to the Bank's Form 6-K filed with the SEC dated September 14, 2021.

In the opinion of Ashurst LLP, when the Notes have been duly completed in accordance with the Indenture and issued and sold as contemplated by the prospectus supplement and the prospectus, the Notes will be valid, binding and enforceable obligations of the Bank, entitled to the benefits of the Indenture, subject to applicable bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and similar laws of general applicability relating to or affecting creditors' rights and subject to general principles of equity, public policy considerations and the discretion of the court before which any suit or proceeding may be brought. This opinion is given as of the date hereof and is limited to the laws of the State of New York. This opinion is subject to customary assumptions about the Trustee's authorization, execution and delivery of the Indenture and the genuineness of signatures and to such counsel's reliance on the Bank and other sources as to certain factual matters, all as stated in the legal opinion dated September 14, 2021, which has been filed as Exhibit 5.4 to the Bank's Form 6-K dated September 14, 2021.